

=> fil reg
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STRUCTURE FILE UPDATES: 5 AUG 2010 HIGHEST RN 1235410-27-1
 DICTIONARY FILE UPDATES: 5 AUG 2010 HIGHEST RN 1235410-27-1

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TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

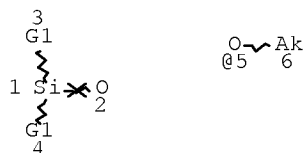
Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
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 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d que

L3 STR



VAR G1=AK/CB/5

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NSPEC IS RC AT 2

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

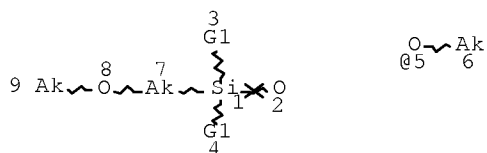
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L5 635672 SEA FILE=REGISTRY SSS FUL L3

L9 STR



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DEFAULT ECLEVEL IS LIMITED

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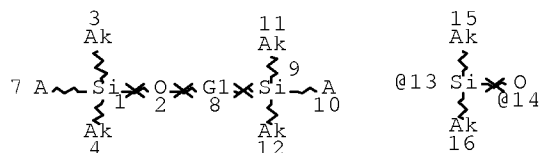
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STEREO ATTRIBUTES: NONE

L11 29661 SEA FILE=REGISTRY SUB=L5 SSS FUL L9

L14 STR



REP G1=(1-20) 13-2 14-9

NODE ATTRIBUTES:

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NSPEC IS RC AT 2

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NSPEC IS RC AT 14

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

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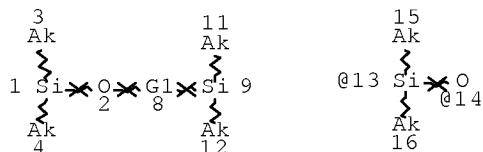
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NSPEC IS RC AT 2

NSPEC IS RC AT 13

NSPEC IS RC AT 14

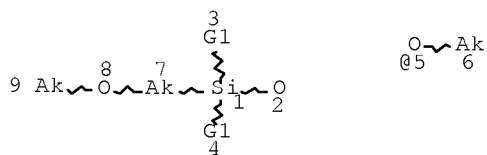
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DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE

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L23	19117	SEA FILE=HCAPLUS SPE=ON	ABB=ON	PLU=ON	L16
L24	29608	SEA FILE=HCAPLUS SPE=ON	ABB=ON	PLU=ON	L20
L25	5094	SEA FILE=HCAPLUS SPE=ON	ABB=ON	PLU=ON	L22 AND (L23 OR L24)
L27	3492	SEA FILE=HCAPLUS SPE=ON	ABB=ON	PLU=ON	"HYDROSILYLATION CATALYSTS"+PFT,NT/CT
L28	69	SEA FILE=HCAPLUS SPE=ON	ABB=ON	PLU=ON	L25 AND L27
L29	1	SEA FILE=HCAPLUS SPE=ON	ABB=ON	PLU=ON	L28 AND ELECTROCHEM?/SC, SX
L30	1	SEA FILE=HCAPLUS SPE=ON	ABB=ON	PLU=ON	L28 AND ELECTROLYT ?
L31	49	SEA FILE=HCAPLUS SPE=ON	ABB=ON	PLU=ON	L25 AND ELECTROCHEM?/SC, SX
L32	1	SEA FILE=HCAPLUS SPE=ON	ABB=ON	PLU=ON	L31 AND HYDROSILYLATION CATALYST?
L33		STR			



VAR G1=AK/CB/5
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

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10/553,058

L46 43 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (L44 OR L45)
L47 26 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L46 AND (1840-2003
)/PRY,AY,PY
L48 26 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L47 OR L43

=> fil hcap
FILE 'HCAPLUS' ENTERED AT 15:10:30 ON 06 AUG 2010
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FILE COVERS 1907 - 6 Aug 2010 VOL 153 ISS 7
FILE LAST UPDATED: 5 Aug 2010 (20100805/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 148 1-26 ibib ed abs hitstr hitind

L48 ANSWER 1 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2010:556106 HCAPLUS Full-text
DOCUMENT NUMBER: 152:502383
TITLE: Procedure for preparation of **crosslinkable**
polymer composite electrolyte membranes and use in
electrochemical devices
INVENTOR(S): Boutevin, Bernard
PATENT ASSIGNEE(S): Caporiccio Gerardo, Italy
SOURCE: Ital., 18pp.
CODEN: ITXXBY
DOCUMENT TYPE: Patent
LANGUAGE: Italian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IT 1347924	B1	20081007	IT 2003-MI447	20030311
			<--	
PRIORITY APPLN. INFO.:			IT 2003-MI447	20030311

<--

ED Entered STN: 05 May 2010

AB The composites comprise a hybrid siloxane-polyether with at least three crosslinkable groups at end and on the chain and nanostructured inorg. compds., a crosslinking agent, a crosslinking catalyst, and a dispersant/solvent; the crosslinking process is carried out at 120-170° and 1-20 atm and the composite of crosslinked polymer and salts is obtained as a gel suitable for use in batteries and electrochem. cells. The monomers are alkyl-alkoxysilanes and chlorodimethylvinylsilane which provides the crosslinkable groups and triallylisocyanurate (TAIC) or triallylcyanurate (TAC); the catalyst are di-tert-Bu peroxide or 2,5-dimethyl-2,5-di(tert-butylperoxy)hexane; and the nanostructured inorg. compds. include silica, alumina, zeolites, carbon, graphite, LiAlO₂, and Li salt electrolytes. A device consisting of a layer of polymer electrolyte composite gel, in contact with graphitic carbon anode and a Li-Mn oxide cathode in a solution of di-Et carbonate and Et carbonate showed a discharge voltage of 4 V.

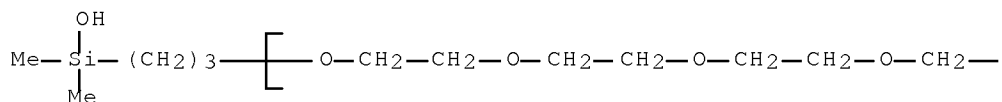
IT 1221505-05-0P 1221505-08-3P

(preparation of vinylsilane-terminated polysiloxane-polyether - lithium salt composite electrolyte membranes and use in prototype lithium battery)

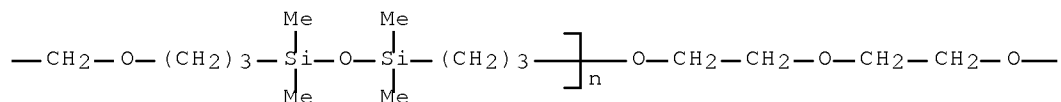
RN 1221505-05-0 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED

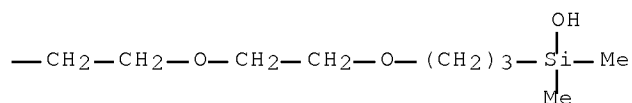
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PAGE 1-B

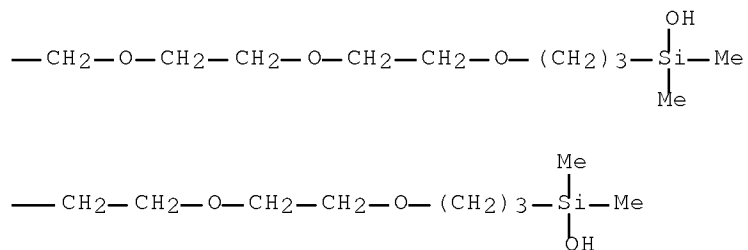
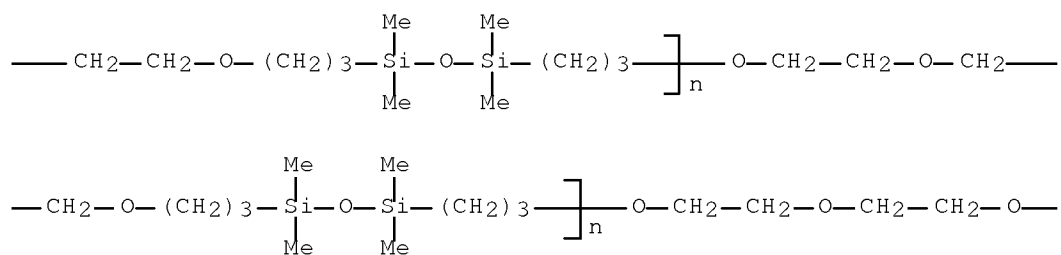
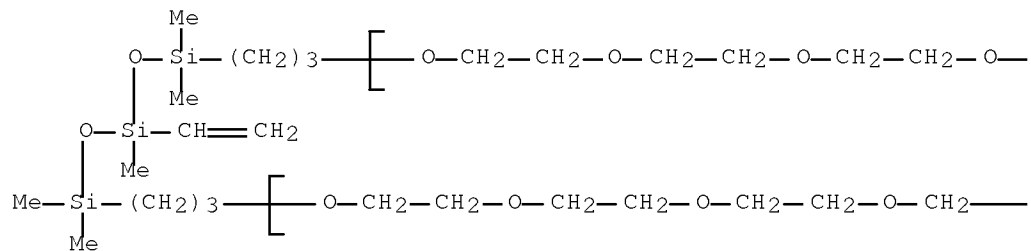


PAGE 1-C



RN 1221505-08-3 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED



IT 1221505-11-8DP, dimethyl- and vinyl-terminated
 (preparation of vinylsilane-terminated polysiloxane-polyether - lithium
 salt composite electrolyte membranes and use in prototype lithium
 battery)

RN 1221505-11-8 HCAPLUS

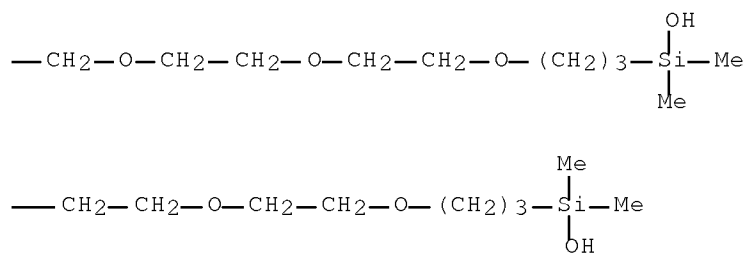
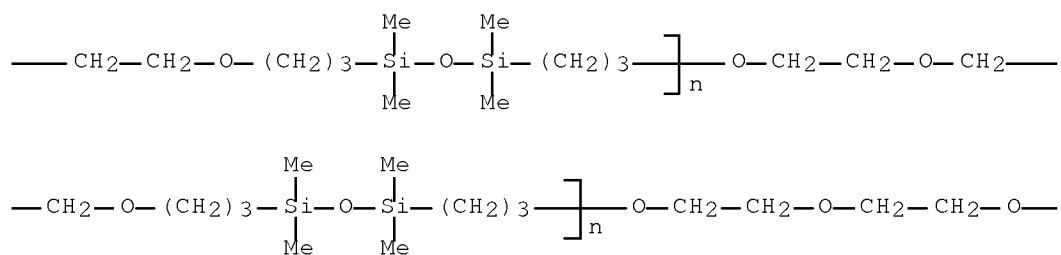
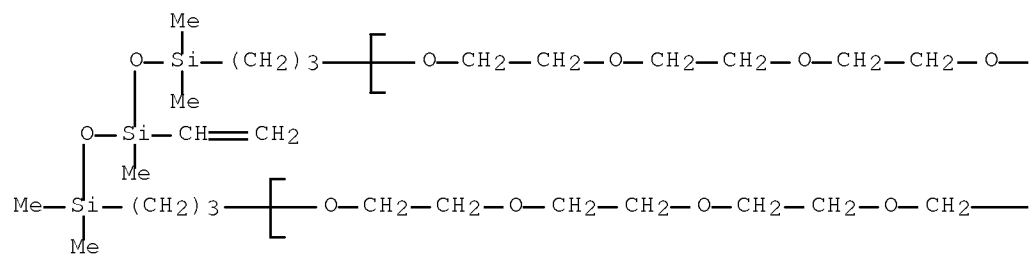
CN INDEX NAME NOT YET ASSIGNED

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CRN 1221505-08-3

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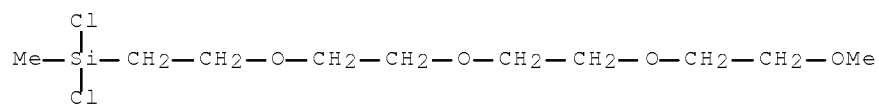
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CM 2

CRN 1221504-93-3

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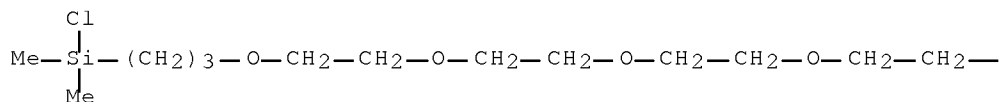


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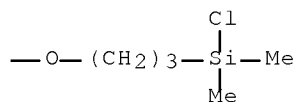
CRN 865316-01-4

CMF C18 H40 Cl2 O5 Si2

PAGE 1-A



PAGE 1-B



IT 1221505-11-8

(preparation of vinylsilane-terminated polysiloxane-polyether - lithium salt composite electrolyte membranes and use in prototype lithium battery)

RN 1221505-11-8 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED

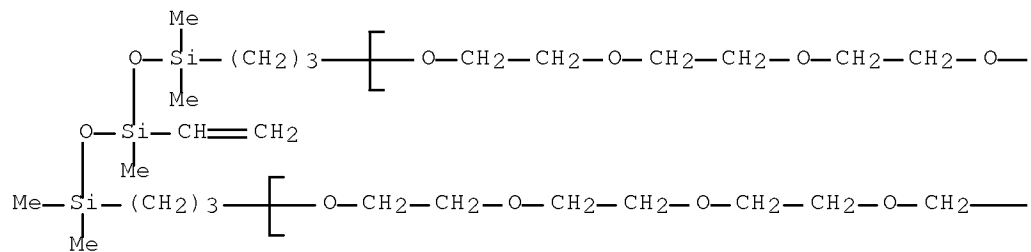
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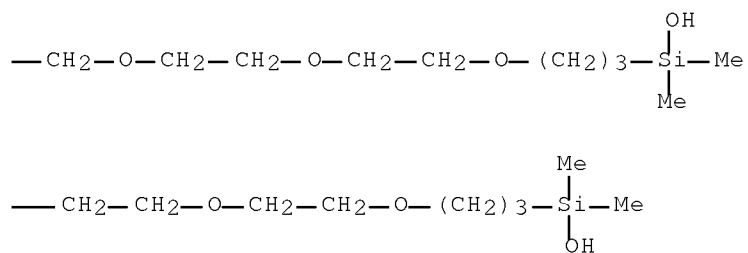
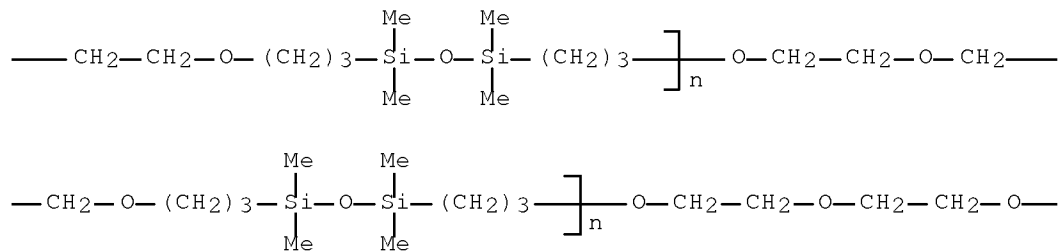
CRN 1221505-08-3

CMF (C18 H40 O6 Si2)_n (C18 H40 O6 Si2)_n C39 H88 O14 Si5

CCI PMS

PAGE 1-A

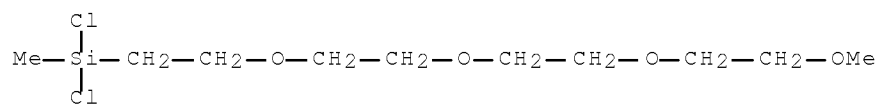




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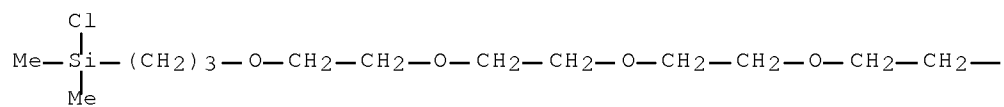
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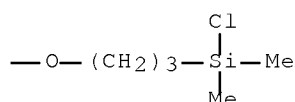


CM 3

CRN 865316-01-4

CMF C18 H40 Cl2 O5 Si2





IPCI C08G0077-00 [ICM,7]

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 29, 52

IT Crosslinking

(thermal; preparation of vinylsilane-terminated polysiloxane-polyether - lithium salt composite electrolyte membranes and use in prototype lithium battery)

IT 557-40-4P, Diallyl ether 865316-01-4P 1221504-93-3P
1221505-05-0P 1221505-08-3P

(preparation of vinylsilane-terminated polysiloxane-polyether - lithium salt composite electrolyte membranes and use in prototype lithium battery)

IT 124-70-9DP, Dichloromethylvinylsilane, reaction products with polysiloxanes 1221505-11-8DP, dimethyl- and vinyl-terminated

(preparation of vinylsilane-terminated polysiloxane-polyether - lithium salt composite electrolyte membranes and use in prototype lithium battery)

IT 1221504-94-4 1221505-11-8

(preparation of vinylsilane-terminated polysiloxane-polyether - lithium salt composite electrolyte membranes and use in prototype lithium battery)

L48 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:698198 HCAPLUS Full-text

DOCUMENT NUMBER: 143:196831

TITLE: Electrochemical device having electrolyte including disiloxane

INVENTOR(S): West, Robert C.; Amine, Khalil; Zhang, Zhengcheng; Wang, Qingzheng; Rossi, Nicholas Agostino Antonio; Vissers, Donald R.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 29 pp., Cont.-in-part of U.S. Ser. No. 810,081.
CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 16

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 20050170254	A1	20050804	US 2004-971507	20041021
US 20040248014	A1	20041209	US 2004-810081	20040325
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US 7588859	B1	20090915	US 2004-810080	20040325
US 7598003	B1	20091006	US 2005-72739	20050303
PRIORITY APPLN. INFO.:			US 2004-542017P	P 20040204
			US 2004-543898P	P 20040211

US 2004-543951P	P	20040211
US 2004-810019	A2	20040325
US 2004-810080	A2	20040325
US 2004-810081	A2	20040325
US 2003-443892P	P	20030130
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US 2003-446848P	P	20030211
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US 2003-451065P	P	20030226
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WO 2003-US8783	A2	20030320
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US 2003-502017P	P	20030910
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US 2004-563848P	P	20040419
US 2004-563849P	P	20040419
US 2004-563850P	P	20040419
US 2004-563852P	P	20040419
US 2004-565211P	P	20040422
US 2004-601452P	P	20040813
US 2004-606340P	P	20040901
US 2004-962125	A2	20041007
US 2004-971507	A2	20041021
US 2004-971912	A2	20041021
US 2004-971913	B2	20041021
US 2004-971926	A2	20041021
US 2004-977313	B2	20041028
US 2005-56869	A2	20050210

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 05 Aug 2005

AB One example of the disiloxanes includes a backbone with a first silicon and a second silicon. The first silicon is linked to a first substituent selected from a group consisting of: a first side chain that includes a cyclic carbonate moiety; a first side chain that includes a poly(alkylene oxide) moiety; and a first crosslink links the disiloxane to a second siloxane and that includes a poly(alkylene oxide) moiety. In some instance, the second silicon is linked to a second substituent selected from a group consisting of: a second side chain that includes a cyclic carbonate moiety, and a second side chain that includes a poly(alkylene oxide) moiety.

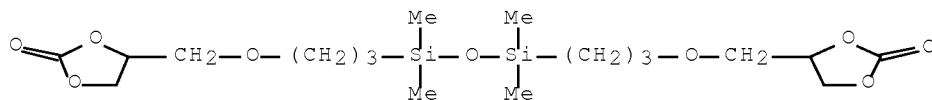
IT 337357-54-7 861995-84-8 861995-94-0
861995-97-3

10/553,058

(electrolyte containing disiloxane for electrochem. devices)

RN 337357-54-7 HCAPLUS

CN 1,3-Dioxolan-2-one, 4,4'-[(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis(3,1-propanediylloxymethylene)]bis- (CA INDEX NAME)



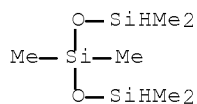
RN 861995-84-8 HCAPLUS

CN Ethanol, 2-[2-(2-methoxyethoxy)ethoxy]-, polymer with 1,1,3,3,5,5-hexamethyltrisiloxane (9CI) (CA INDEX NAME)

CM 1

CRN 1189-93-1

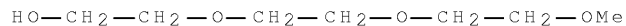
CMF C6 H20 O2 Si3



CM 2

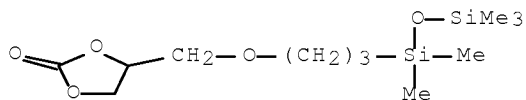
CRN 112-35-6

CMF C7 H16 O4



RN 861995-94-0 HCAPLUS

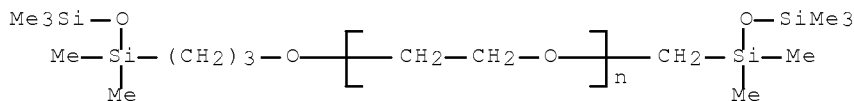
CN 1,3-Dioxolan-2-one, 4-[[3-(1,1,3,3,3-pentamethyl-1-disiloxanyl)propoxy]methyl]- (CA INDEX NAME)



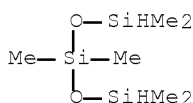
RN 861995-97-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[(pentamethyldisiloxanyl)methyl]-

ω -[3-(pentamethyldisiloxanyl)propoxy]- (9CI) (CA INDEX NAME)



IT ~~1189-93-1~~, 1,1,3,3,5,5-Hexamethyltrisiloxane
(electrolyte containing disiloxane for electrochem. devices)
RN 1189-93-1 HCAPLUS
CN Trisiloxane, 1,1,3,3,5,5-hexamethyl- (CA INDEX NAME)



INCL 429313000
IPCI H01M0006-18 [ICM,7]
IPCR H01M0006-18 [I,C*]; H01M0006-18 [I,A]
NCL 429/313.000
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 38
IT 2996-92-1, Phenyltrimethoxysilane 21324-40-3, Lithium hexafluorophosphate 90076-65-6, Lithium bis(trifluoromethanesulfonyl)imide 244761-29-3, Lithium bis(oxalato)borate 337357-54-7 851904-00-2
861995-84-8 861995-85-9 861995-86-0 861995-87-1
861995-88-2 861995-89-3 861995-90-6 861995-91-7 861995-92-8
861995-93-9 861995-94-0 861995-95-1 861995-96-2
861995-97-3
(electrolyte containing disiloxane for electrochem. devices)
IT 111-77-3, Di(ethylene glycol) methyl ether 112-35-6
~~1189-93-1~~, 1,1,3,3,5,5-Hexamethyltrisiloxane 1438-82-0,
Pentamethyldisiloxane 3277-26-7 13752-97-1, Di(ethylene glycol) allyl methyl ether 15022-08-9, Allyl carbonate 19685-21-3,
Tri(ethylene glycol) allyl methyl ether 27252-80-8, Poly(ethylene glycol) allyl methyl ether 58185-54-9, Tetra(ethylene glycol) diallyl ether 132388-53-5, Penta(ethylene glycol) allyl methyl ether
(electrolyte containing disiloxane for electrochem. devices)
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L48 ANSWER 3 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:1081100 HCAPLUS Full-text
DOCUMENT NUMBER: 142:58108
TITLE: Silicone/polyurethane coated fabrics as airbag with improved hold-up time
INVENTOR(S): Lin, Shaow; Suzuki, Toshio; Toth, Simon
PATENT ASSIGNEE(S): Dow Corning Corporation, USA

10/553,058

SOURCE: PCT Int. Appl., 29 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004109008	A1	20041216	WO 2004-US17277	20040601
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1629150	A1	20060301	EP 2004-753985	20040601
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1798889	A	20060705	CN 2004-80015411	20040601
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CN 100378268	C	20080402		
JP 2007526400	T	20070913	JP 2006-515066	20040601
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US 20060217016	A1	20060928	US 2005-555116	20051101
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PRIORITY APPLN. INFO.:			US 2003-475741P	P 20030604
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			WO 2004-US17277	W 20040601

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

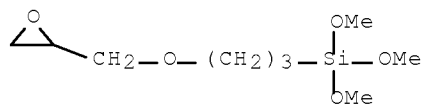
ED Entered STN: 17 Dec 2004

AB Fabrics having a coating comprising a reaction product of a silicone component derived from an aqueous silicone emulsion and a polyurethane component derived from an aqueous silicone dispersion, are particularly useful in the preparation of airbags having improved air or gas retention properties. A coated fabric comprises a fabric having a coating composition on at least a portion of the surface of the fabric, wherein the coating composition comprises a reaction product of: (A) 5 to 60 weight parts of a silicone component wherein the silicone component is derived from an aqueous silicone emulsion, and (B) 40 to 95 weight parts of a polyurethane component wherein the polyurethane component is derived from an aqueous polyurethane dispersion. The curable silicone emulsion comprises: (a) a curable organopolysiloxane containing at least two alkenyl groups, (b) an optional crosslinking agent such as an organohydrido silicon compound, (c) a cure agent in an amount sufficient to cure said organopolysiloxane such as a hydrosilylation catalyst.

IT 2530-83-8, Z 6040 2530-85-0,
 3-Methacryloxypropyltrimethoxysilane 4369-14-6,
 3-(Trimethoxysilyl)propyl acrylate
 (adhesion promoter; silicone/polyurethane coated fabrics as airbag
 with improved hold-up time)
 RN 2530-83-8 HCAPLUS

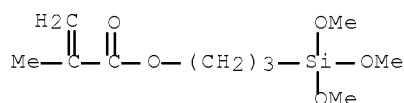
10/553,058

CN Oxirane, 2-[[3-(trimethoxysilyl)propoxy]methyl]- (CA INDEX NAME)



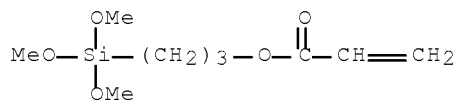
RN 2530-85-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (CA INDEX NAME)



RN 4369-14-6 HCAPLUS

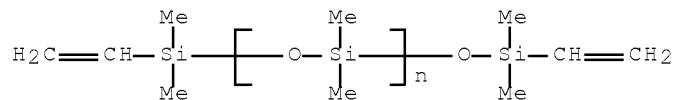
CN 2-Propenoic acid, 3-(trimethoxysilyl)propyl ester (CA INDEX NAME)



IT 59942-04-0D, Dimethylvinylsilyl terminated polydimethylsiloxane, polymers with vinyl-terminated vinyl-containing silicone and hydrogen-containing silicone (silicone/polyurethane coated fabrics as airbag with improved hold-up time)

RN 59942-04-0 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -(ethenyldimethylsilyl)- ω -[(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)



IPCI D06N0003-14 [ICM,7]; D06N0003-12 [ICS,7]; D06M0015-564 [ICS,7]; D06M0015-643 [ICS,7]; D06M0015-37 [ICS,7,C*]

IPCR D06M0015-37 [I,C*]; D06M0015-564 [I,A]; D06M0015-643 [I,A]; D06N0003-12 [I,C*]; D06N0003-12 [I,A]; D06N0003-14 [I,A]

CC 40-5 (Textiles and Fibers)

Section cross-reference(s): 42

IT 78-08-0, Vinyltriethoxysilane 78-10-4, Tetraethoxysilane
 1185-55-3, Methyltrimethoxysilane 2031-67-6, Methyltriethoxysilane
 2530-83-8, Z 6040 2530-85-0,
 3-Methacryloxypropyltrimethoxysilane 2551-83-9,
 Allyltrimethoxysilane 2768-02-7, Vinyltrimethoxysilane 2943-75-1,
 Octyltriethoxysilane 3388-04-3,
 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane 4369-14-6,
 3-(Trimethoxysilyl)propyl acrylate 10217-34-2, Coat-O-Sil 1770
 16753-62-1, Vinylmethyldimethoxysilane 110539-70-3, Witcobond XW
 (adhesion promoter; silicone/polyurethane coated fabrics as airbag
 with improved hold-up time)

IT 59942-04-0D, Dimethylvinylsilyl terminated
 polydimethylsiloxane, polymers with vinyl-terminated vinyl-containing
 silicone and hydrogen-containing silicone 155665-02-4D,
 Dimethylsilanediol-methylvinylsilanediol copolymer,
 dimethylvinylsilyl-terminated, polymers with vinyl-terminated silicone
 and hydrogen-containing silicone 156118-35-3D,
 Dimethylsilanediol-methylsilanediol copolymer, polymers with
 vinyl-terminated silicone
 (silicone/polyurethane coated fabrics as airbag with improved
 hold-up time)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS
 RECORD (2 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L48 ANSWER 4 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:823006 HCAPLUS Full-text

DOCUMENT NUMBER: 141:334861

TITLE: Crosslinked
 polyoxyalkylene-polysiloxanes for use as
 nonaqueous salt-type electrolytes for
 lithium secondary batteries

INVENTOR(S): Gambut, Lucile; George, Catherine; Vergelati,
 Caroll; Pujol, Jean Marc

PATENT ASSIGNEE(S): Rhodia Chimie, Fr.

SOURCE: Fr. Demande, 24 pp.
 CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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FR 2853319	A1	20041008	FR 2003-4157	20030403
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FR 2853319	B1	20050506		
WO 2004090038	A1	20041021	WO 2004-FR709	20040323
			<--	
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,			
	CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,			
	GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,			
	KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,			
	MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,			
	SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,			
	VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,			

10/553,058

AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE,
 DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
 ML, MR, NE, SN, TD, TG

EP 1608706 A1 20051228 EP 2004-742319 20040323

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 PL, SK

CN 1788055 A 20060614 CN 2004-80013112 20040323

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KR 2006002936 A 20060109 KR 2005-718921 20051004

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US 20090035655 A1 20090205 US 2007-553058 20070406

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PRIORITY APPLN. INFO.: FR 2003-4157 A 20030403

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WO 2004-FR709 W 20040323

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 141:334861

ED Entered STN: 08 Oct 2004

AB Polymeric electrolytes for lithium secondary batteries consist of: (1) a polyorganosiloxane containing ≥ 2 C2-6-alkenylsilane or -alkenylsiloxane, and includes a polyoxyalkylene ether function, (2) a second polyorganosiloxane containing ≥ 2 (preferably 0.4-10) active Si-H bonds per mol., (3) a hydrosilylation catalyst (especially a Karstedt-type complex), and (4) ≥ 1 salt electrolyte. The polyoxyalkylene ether functions are derived from polyoxyethylene, polyoxypropylene, or their mono-Me ethers. Suitable salt electrolytes include LiClO₄, LiBF₄, LiAsF₆, CF₃SO₃Li, LiN(CF₃SO₂)₂, and LiN(C₂F₅SO₂)₂ in a non-aqueous electrolyte solvent, as well as other cations (e.g., a transition metal cations, selected from Mn, Fe, Co, Ni, Cu, Zn, Ca, and Ag).

IT 771505-05-6P, Dimethoxysilanediol graft polymer with octamethyltetracyclosiloxane, oxirane and tetramethyltetravinylcyclotetrasiloxane, methyl ether (battery electrolytes containing; crosslinked polyoxyalkylene-polysiloxanes for use as nonaq. salt-type electrolytes for lithium secondary batteries)

RN 771505-05-6 HCAPLUS

CN Silicic acid (H₄SiO₄), dimethyl ester, polymer with octamethylcyclotetrasiloxane, oxirane and 2,4,6,8-tetraethenyl-2,4,6,8-tetramethylcyclotetrasiloxane, methyl ether, graft (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O

H₃C—OH

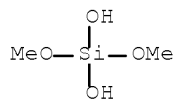
CM 2

10/553,058

CRN 771505-04-5
 CMF (C12 H24 O4 Si4 . C8 H24 O4 Si4 . C2 H8 O4 Si . C2 H4 O)x
 CCI PMS

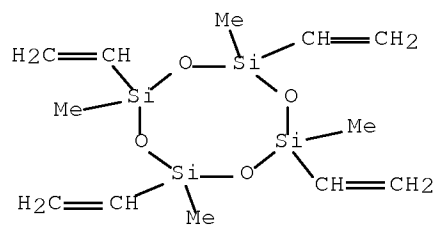
CM 3

CRN 3555-58-6
 CMF C2 H8 O4 Si



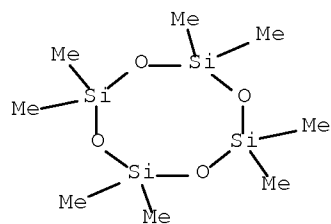
CM 4

CRN 2554-06-5
 CMF C12 H24 O4 Si4



CM 5

CRN 556-67-2
 CMF C8 H24 O4 Si4

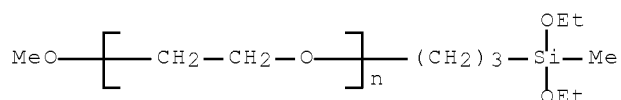


CM 6

CRN 75-21-8
CMF C2 H4 O



IT 118529-51-4P
(synthesis and polymerization of; crosslinked
polyoxyalkylene-polysiloxanes for use as nonaq. salt-type
electrolytes for lithium secondary batteries)
RN 118529-51-4 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -[3-(diethoxymethylsilyl)propyl]-
 ω -methoxy- (9CI) (CA INDEX NAME)



IPCI C08G0077-20 [ICM,7]; C08G0077-00 [ICM,7,C*]; C08L0083-07 [ICS,7];
C08L0083-00 [ICS,7,C*]; C08K0003-00 [ICS,7]; H01M0010-22 [ICS,7];
H01M0010-20 [ICS,7,C*]; H01B0001-12 [ICS,7]
IPCR C08G0077-00 [I,C*]; C08G0077-20 [I,A]; C08G0077-42 [I,A]; C08K0003-00
[I,C*]; C08K0003-00 [I,A]; C08L0083-00 [I,C*]; C08L0083-04 [I,A];
C08L0083-07 [I,A]; C08L0083-12 [I,A]; H01B0001-04 [I,C*]; H01B0001-04
[I,A]; H01B0001-12 [I,C*]; H01B0001-12 [I,A]; H01M0006-18 [I,C*];
H01M0006-18 [I,A]; H01M0008-10 [I,C*]; H01M0008-10 [I,A]; H01M0010-20
[I,C*]; H01M0010-22 [I,A]; H01M0010-36 [I,C*]; H01M0010-36 [I,A]
CC 52-2 (Electrochemical, Radiational, and Thermal Energy
Technology)
Section cross-reference(s): 35, 38
ST crosslinked polymer electrolyte polyoxyalkylene
polysiloxane lithium battery; nonaq battery polyoxyalkylene
polysiloxane electrolyte; hydrosilylation polyoxyalkylene
polysiloxane crosslinking battery electrolyte;
Karstedt hydrosilylation polyoxyalkylene polysiloxane battery
electrolyte
IT Polysiloxanes, uses
(battery electrolytes containing; crosslinked
polyoxyalkylene-polysiloxanes for use as nonaq. salt-type
electrolytes for lithium secondary batteries)
IT Transition metal salts
(battery electrolytes containing; crosslinked
polyoxyalkylene-polysiloxanes for use as nonaq. salt-type
electrolytes for lithium secondary batteries)
IT Hydrosilylation
Hydrosilylation catalysts
(crosslinked polyoxyalkylene-polysiloxanes for use as
nonaq. salt-type electrolytes for lithium secondary
batteries)
IT Polyoxyalkylenes, uses

(di-Me, Me hydrogen polysiloxane-, battery electrolytes containing; crosslinked polyoxyalkylene-polysiloxanes for use as nonaq. salt-type electrolytes for lithium secondary batteries)

- IT Polysiloxanes, uses
(di-Me, Me hydrogen, polyoxyalkylene-, battery electrolytes containing; crosslinked polyoxyalkylene-polysiloxanes for use as nonaq. salt-type electrolytes for lithium secondary batteries)
- IT Battery electrolytes
(nonaq.; crosslinked polyoxyalkylene-polysiloxanes for use as nonaq. salt-type electrolytes for lithium secondary batteries)
- IT Polysiloxanes, uses
(polyoxyalkylene-, battery electrolytes containing; crosslinked polyoxyalkylene-polysiloxanes for use as nonaq. salt-type electrolytes for lithium secondary batteries)
- IT Polyoxyalkylenes, uses
(polysiloxane-, battery electrolytes containing; crosslinked polyoxyalkylene-polysiloxanes for use as nonaq. salt-type electrolytes for lithium secondary batteries)
- IT 771505-05-6P, Dimethoxysilanediol graft polymer with octamethyltetracyclosiloxane, oxirane and tetramethyltetravinylcyclotetrasiloxane, methyl ether (battery electrolytes containing; crosslinked polyoxyalkylene-polysiloxanes for use as nonaq. salt-type electrolytes for lithium secondary batteries)
- IT 67-68-5, Dimethyl sulfoxide, uses 96-48-0, γ -Butyrolactone 96-49-1, Ethylene carbonate 105-58-8, Diethyl carbonate 108-32-7, Propylene carbonate 109-99-9, Tetrahydrofuran, uses 110-71-4 616-38-6, Dimethyl carbonate 623-53-0, Ethyl methyl carbonate 646-06-0, 1,3-Dioxolane 7439-89-6D, Iron, salts 7439-96-5D, Manganese, salts 7440-02-0D, Nickel, salts 7440-22-4D, Silver, salts 7440-48-4D, Cobalt, salts 7440-50-8D, Copper, salts 7440-66-6D, Zinc, salts 7440-70-2D, Calcium, salts 7791-03-9, Lithium perchlorate 14283-07-9, Lithium tetrafluoroborate 21324-40-3, Lithium hexafluorophosphate 24991-55-7, Polyethylene glycol dimethyl ether 33454-82-9, Lithium trifluoromethanesulfonate 90076-65-6 132843-44-8 (battery electrolytes containing; crosslinked polyoxyalkylene-polysiloxanes for use as nonaq. salt-type electrolytes for lithium secondary batteries)
- IT 118529-51-4P
(synthesis and polymerization of; crosslinked polyoxyalkylene-polysiloxanes for use as nonaq. salt-type electrolytes for lithium secondary batteries)

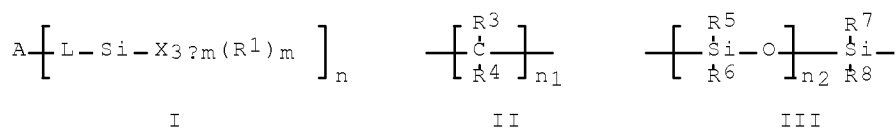
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L48 ANSWER 5 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2004:330977 HCAPLUS Full-text
 DOCUMENT NUMBER: 140:360270
 TITLE: Organic-inorganic hybrid proton conductor and fuel cell
 INVENTOR(S): Wariishi, Koji
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004127580	A	20040422	JP 2002-286860	20020930
			<--	
PRIORITY APPLN. INFO.:			JP 2002-286860	20020930
			<--	

ED Entered STN: 23 Apr 2004
 GI



AB The hybrid H⁺ conductor contains a H⁺ source and a 3-dimensional crosslinked product of a precursor I [R¹ = (substituted) alkyl, aryl, or heterocyclic group, X = halogen or OR², R² = H, alkyl, aryl, or cyclic group, L = bivalent connecting group, p = integer 0-2, n = integer 2-10, A = connecting group II or III, n₁ and n₂ = integer 1-20, R³ and R⁴ = H or (substituted) alkyl or aryl group or single bond, R⁵ and R⁶ = (substituted) alkyl or aryl group, when n₁ and n₂ ≥ 2, the R³, R⁴, R⁵, and R⁶ can be the same or different or join together to form rings] formed by a sol-gel reaction. Preferably, the H⁺ source is selected from H₃PO₄, H₃PO₃, their esters, and phosphotungstic acid, and tungsten oxy complexes.

IT 681234-92-4 681234-96-8
 (compns. of organic-inorg. hybrid proton conductor for fuel cell electrolytes)

RN 681234-92-4 HCAPLUS

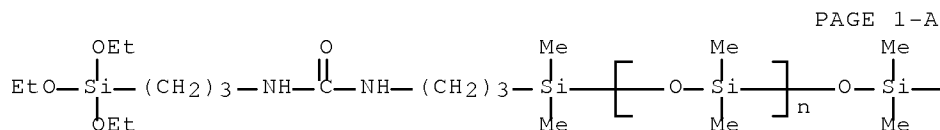
CN Poly[oxy(dimethylsilylene)], α-(11,11-diethoxy-1,1-dimethyl-6-oxo-12-oxa-5,7-diaza-1,11-disilatetradec-1-yl)-ω-[(11,11-diethoxy-1,1-dimethyl-6-oxo-12-oxa-5,7-diaza-1,11-disilatetradec-1-yl)oxy]-, polymer with (triethoxysilyl)benzene (CA INDEX NAME)

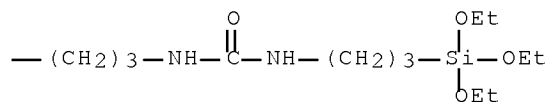
CM 1

CRN 681234-91-3

CMF (C2 H6 O Si)_n C30 H70 N4 O9 Si4

CCI PMS

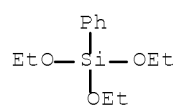




CM 2

CRN 780-69-8

CMF C12 H20 O3 Si



RN 681234-96-8 HCAPLUS

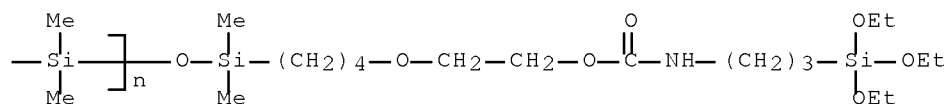
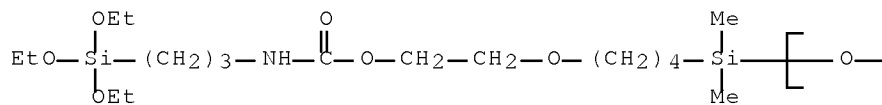
CN Poly[oxy(dimethylsilylene)], α -(15,15-diethoxy-1,1-dimethyl-10-oxo-6,9,16-trioxa-11-aza-1,15-disilaoctadec-1-yl)- ω -[(15,15-diethoxy-1,1-dimethyl-10-oxo-6,9,16-trioxa-11-aza-1,15-disilaoctadec-1-yl)oxy]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 681234-95-7

CMF (C2 H6 O Si)_n C36 H80 N2 O13 Si4

CCI PMS



IPCI H01M0008-02 [ICM,7]; C08K0003-32 [ICS,7]; C08K0003-00 [ICS,7,C*];
C08K0005-52 [ICS,7]; C08K0005-00 [ICS,7,C*]; C08L0101-10 [ICS,7];

C08L0101-00 [ICS,7,C*]; H01B0001-06 [ICS,7]; H01M0008-10 [ICS,7]
 IPCR C08K0003-00 [I,C*]; C08K0003-32 [I,A]; C08K0005-00 [I,C*]; C08K0005-52
 [I,A]; C08L0101-00 [I,C*]; C08L0101-10 [I,A]; H01B0001-06 [I,A];
 H01B0001-06 [I,C*]; H01M0008-02 [I,A]; H01M0008-02 [I,C*]; H01M0008-10
 [I,A]; H01M0008-10 [I,C*]
 CC 52-2 (Electrochemical, Radiational, and Thermal Energy
 Technology)
 IT 681234-89-9 681234-90-2 ~~681234-92-4~~ 681234-94-6
~~681234-96-8~~
 (compns. of organic-inorg. hybrid proton conductor for fuel cell
 electrolytes)

L48 ANSWER 6 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2004:292223 HCAPLUS Full-text
 DOCUMENT NUMBER: 140:324191
 TITLE: Dye-sensitized solar cells with molten salt
 electrolyte impregnated in crosslinked
 polymer network
 INVENTOR(S): Komiya, Ryoichi; Yamanaka, Ryohsuke; Han, Liyuan;
 Mitate, Takehito; Ishiko, Eriko; Kono, Michiyuki
 PATENT ASSIGNEE(S): Sharp Corporation, Japan; Dai-Ichi Kogyo Seiyaku
 Co., Ltd.
 SOURCE: PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004030139	A1	20040408	WO 2003-JP12115	20030922
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AU 2003264556	A1	20040419	AU 2003-264556	20030922
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AU 2003264556	B2	20081106		
EP 1551075	A1	20050706	EP 2003-798455	20030922
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PRIORITY APPLN. INFO.:			JP 2002-279855	A 20020925
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			JP 2002-279884	A 20020925

<--
 WO 2003-JP12115 W 20030922
 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 09 Apr 2004

AB The molten salt type electrolyte for solar cells are impregnated in 3-dimensional network of a ~~crosslinked~~ copolymer between a compound having isocyanate groups and a compound having amino groups, at least one of the isocyanate and amino compds. are polymer of mol. weight 500-100,000. Optionally, amino group-containing compound may be replaced with OH or carboxylic acid group-containing compound. The polymer is preferably selected from polyethers, polyesters, polycaprolactones, polysiloxanes, polyvinylpyrrolidones, polycarbonates, and polyphosphazenes. The impregnation of the fused salt in polymer network reduces the chance of electrolyte leakage and also makes the fabrication process simpler.

IT 392304-92-6P 467219-07-4P
 (dye-sensitized solar cells containing electrolyte impregnated in ~~crosslinked~~ polymer network)

RN 392304-92-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]-~~o~~-[[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]oxy]-, polymer with 1,3-diisocyanatomethylbenzene (CA INDEX NAME)

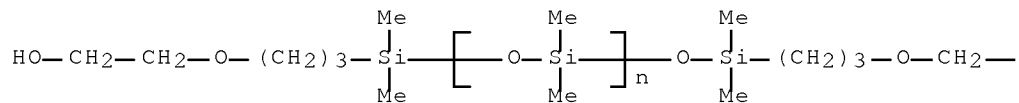
CM 1

CRN 156327-07-0

CMF (C2 H6 O Si)_n C14 H34 O5 Si2

CCI PMS

PAGE 1-A



PAGE 1-B

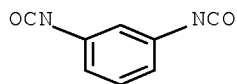
—CH₂—OH

CM 2

CRN 26471-62-5

CMF C9 H6 N2 O2

CCI IDS



D1—Me

RN 467219-07-4 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(4-chloro-4-oxobutyl)dimethylsilyl]- ω -[[(4-chloro-4-oxobutyl)dimethylsilyl]oxy]-, polymer with 1,3-diisocyanatomethylbenzene and Phantol PL 2010 (9CI) (CA INDEX NAME)

CM 1

CRN 467216-83-7

CMF Unspecified

CCI PMS, MAN

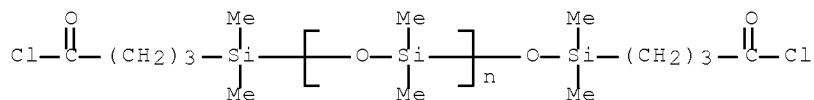
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CM 2

CRN 155886-23-0

CMF (C2 H6 O Si)_n C12 H24 Cl2 O3 Si2

CCI PMS

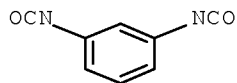


CM 3

CRN 26471-62-5

CMF C9 H6 N2 O2

CCI IDS



D1—Me

IPCI H01M0014-00 [ICM,7]; H01L0031-04 [ICS,7]; H01B0001-12 [ICS,7]
 IPCR H01B0001-12 [I,C*]; H01B0001-12 [I,A]; H01G0009-20 [I,C*]; H01G0009-20 [I,A]; H01M0014-00 [I,C*]; H01M0014-00 [I,A]

- CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 37
- IT Polycarbonates, uses
Polyesters, uses
Polyoxyalkylenes, uses
Polyphosphazenes
Polysiloxanes, uses
Polyureas
Polyurethanes, uses
(dye-sensitized solar cells containing electrolyte impregnated in crosslinked polymer network)
- IT Solar cells
(dye-sensitized; electrolyte impregnated in crosslinked polymer network for)
- IT Polyoxyalkylenes, uses
(reaction products with polyphosphazene and diisocyanates; dye-sensitized solar cells containing electrolyte impregnated in crosslinked polymer network)
- IT 9003-39-8P, Polyvinylpyrrolidone 678188-26-6P
(blends; dye-sensitized solar cells containing electrolyte impregnated in crosslinked polymer network)
- IT 4098-71-9DP, reaction products with polyphosphazene and polyoxyalkylenes 25231-98-5DP, reaction products with polyoxyalkylenes and diisocyanates 25322-68-3DP, PEG, reaction products with polyphosphazene and diisocyanates 26085-02-9DP, Poly[nitrilo(dichlorophosphoranylidene)], reaction products with polyoxyalkylenes and diisocyanates 26471-62-5DP, reaction products with polyphosphazene and polyoxyalkylenes 26915-75-3DP, reaction products with polyphosphazene and diisocyanates 31494-81-2DP, reaction products with polyphosphazene and diisocyanates
107882-89-3P 123384-71-4P 125098-70-6P 152334-44-6P
204760-78-1P 308142-14-5P ~~392304-92-6P~~ 466696-68-4P
466696-69-5P 466696-71-9P 466696-74-2P 467218-95-7P
467218-98-0P 467219-02-9P ~~467219-07-4P~~ 678188-23-3P
678188-24-4P 678188-25-5P 678188-27-7P 678966-33-1P
678966-34-2P 678966-35-3P 678966-37-5P 678966-38-6P
678966-39-7P 678966-40-0P
(dye-sensitized solar cells containing electrolyte impregnated in crosslinked polymer network)
- IT 631-40-3, Tetrapropylammonium iodide 65039-05-6,
1-Butyl-3-methylimidazolium iodide 143314-16-3,
1-Ethyl-3-methylimidazolium tetrafluoroborate 174501-65-6,
1-Butyl-3-methylimidazolium tetrafluoroborate 178631-05-5,
1-Hexyl-3-methylimidazolium iodide 188589-28-8,
1-Octyl-3-methylimidazolium iodide 203389-28-0, 1-Butylpyridinium tetrafluoroborate 210230-43-6 222634-95-9 268212-75-5
268536-05-6 313351-53-0 313351-55-2 313351-62-1 321746-49-0
608140-12-1 678188-20-0 678188-22-2
(electrolyte; dye-sensitized solar cells containing electrolyte impregnated in crosslinked polymer network)
- OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
- REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L48 ANSWER 7 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:551208 HCAPLUS Full-text
DOCUMENT NUMBER: 139:101535

TITLE: Production of oxyalkylene-containing
 acrylate-terminated polysiloxane
 crosslinking agents
 INVENTOR(S): Kang, Yongku; Lee, Changjin; Lee, Won Sil; Noh,
 Kun Ae
 PATENT ASSIGNEE(S): Korea Research Institute of Chemical Technology,
 S. Korea
 SOURCE: U.S. Pat. Appl. Publ., 18 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20030134968	A1	20030717	US 2002-282214	20021028
			<--	
US 6783897	B2	20040831		
KR 2003040618	A	20030523	KR 2001-70969	20011115
			<--	
JP 2003277506	A	20031002	JP 2002-324866	20021108
			<--	
JP 3749217	B2	20060222		
PRIORITY APPLN. INFO.:			KR 2001-70969	A 20011115
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 18 Jul 2003

AB A ~~crosslinking~~ agent comprises Me siloxane polymer backbone, a poly(alkylene oxide) branches and from 2 to 4 of acrylate groups at both terminals. A solid polymer electrolyte composition comprises (a) 0.1-80% of the ~~crosslinking~~ agent, (b) 0.1-80% of a plasticizer selected from poly(alkylene glycol) dialkyl ethers and non-aqueous polar solvents, (c) 3-30% of a lithium salt, and (d) 0.5-5% of a curing initiator. The ~~crosslinkable~~ solid polymer electrolyte composition has a high ionic conductivity at room temperature and can be readily formed into a film suitable for use in large-size lithium-polymer secondary batteries applicable to elec. cars, power storage devices for power leveling, as well as in small-size lithium-polymer secondary batteries applicable to video cameras and portable data terminals, such as cellular phones and notebook computers. Thus, tri(ethylene glycol) allyl Me ether was hydrosilylated with 2,4,6,8-tetramethylcyclotetrasiloxane in the presence of a platinum catalyst producing tetrafunctional tri(ethylene glycol)-substituted D4 monomer in 97.4% yield. The monomer was polymerized in the presence of 1,3-di(3-acryloyloxypropyl)-1,1,3,3- tetramethyldisiloxane terminating agent and sulfuric acid to obtain a polyoxyethylene-grafted acryloyloxy-terminated polysiloxane used as a ~~crosslinkable~~ component in solid polymer electrolyte compns.

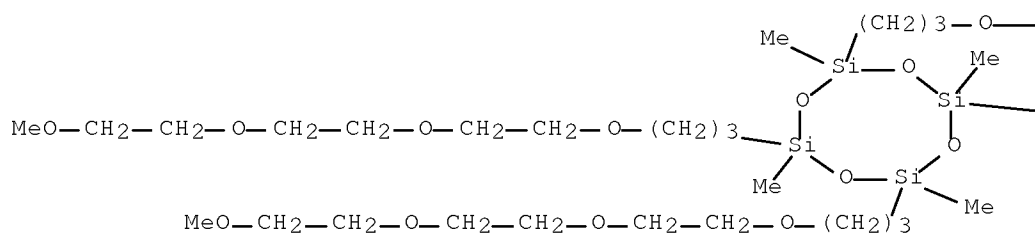
IT 131718-86-0P 362060-08-0P 561065-47-2P
 561065-48-3P

(monomer; production of oxyalkylene-containing acrylate-terminated polysiloxane ~~crosslinking~~ agents)

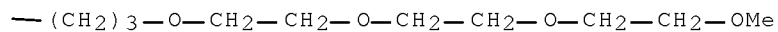
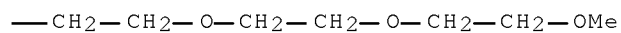
RN 131718-86-0 HCAPLUS

CN Cyclotetrasiloxane, 2,4,6,8-tetramethyl-2,4,6,8-tetra-4,7,10,13-tetraoxatetradec-1-yl- (CA INDEX NAME)

PAGE 1-A



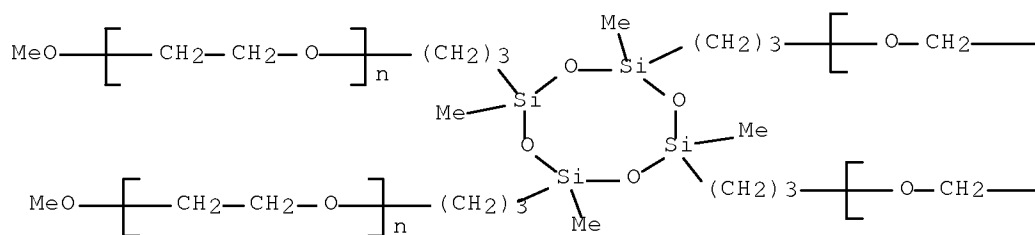
PAGE 1-B



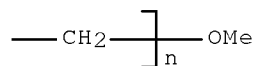
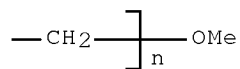
RN 362060-08-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha'', \alpha'''$ -
 [(2,4,6,8-tetramethylcyclotetrasiloxane-2,4,6,8-tetrayl)tetra-3,1-
 propanediyl]tetrakis[ω -methoxy- (CA INDEX NAME)]

PAGE 1-A



PAGE 1-B



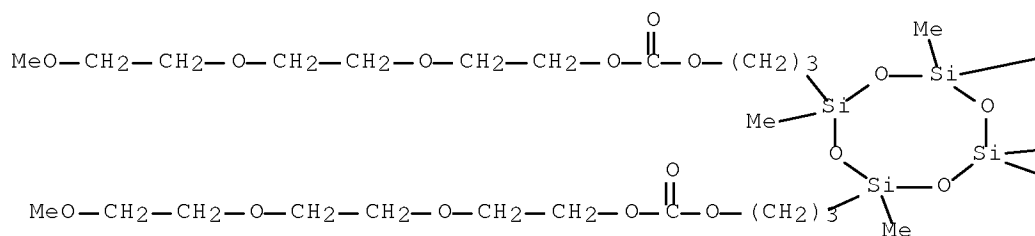
RN 561065-47-2 HCAPLUS

CN 2,5,8,11-Tetraoxadodecanoic acid,
 1,1'-[(2,4,6,8-tetramethylcyclotetrasiloxane-2,4,6,8-tetrayl)tetra-3,1-

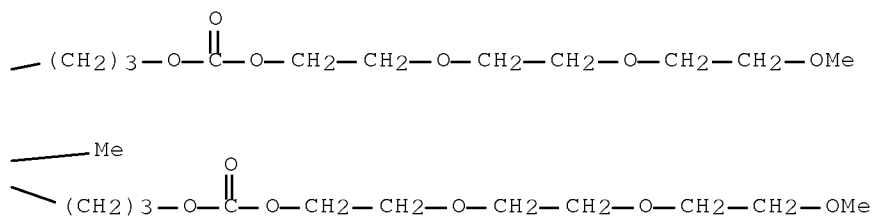
10/553,058

propanediyl] ester (CA INDEX NAME)

PAGE 1-A



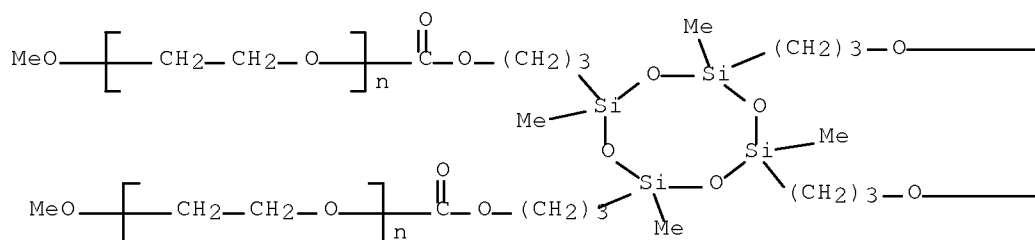
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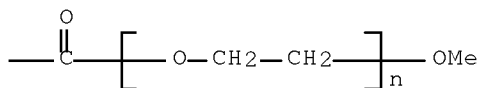
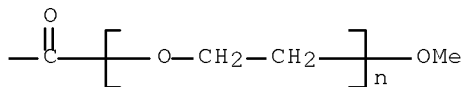


RN 561065-48-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha'', \alpha'''$ -
[(2,4,6,8-tetramethylcyclotetrasiloxane-2,4,6,8-tetrayl)tetrakis(3,1-propanediylloxycarbonyl)]tetrakis[ω -methoxy- (CA INDEX NAME)]

PAGE 1-A





IT 561065-50-7DP, acryloyloxy-terminated 561065-51-8P
 561065-52-9DP, acryloyloxy-terminated 561065-53-0P
 561065-55-2DP, acryloyloxy-terminated
 (production of oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents)

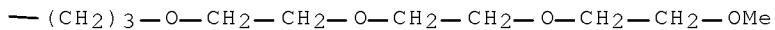
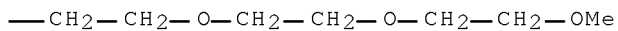
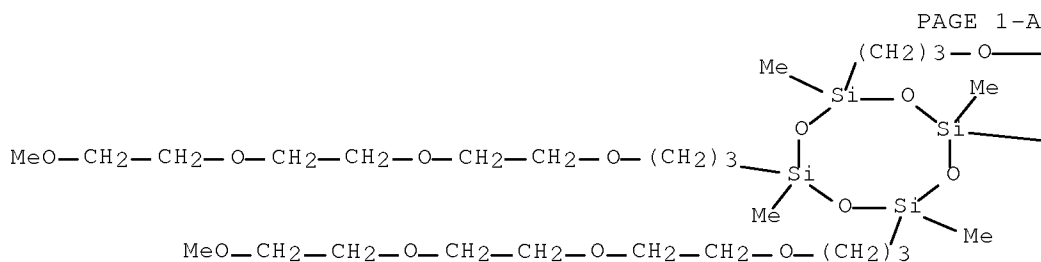
RN 561065-50-7 HCAPLUS

CN Cyclotetrasiloxane, 2,4,6,8-tetramethyl-2,4,6,8-tetrakis(4,7,10,13-tetraoxatetradec-1-yl)-, homopolymer (9CI) (CA INDEX NAME)

CM 1

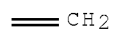
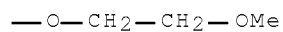
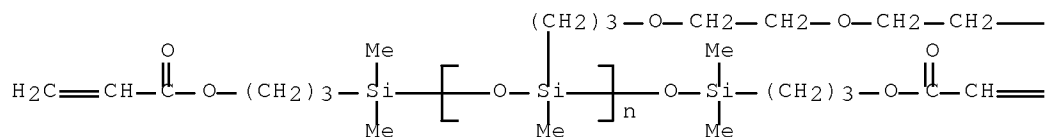
CRN 131718-86-0

CMF C44 H96 O20 Si4



RN 561065-51-8 HCAPLUS

CN Poly[oxy(1-methyl-5,8,11,14-tetraoxa-1-silapentadec-1-ylidene)],
 α -[dimethyl[3-[(1-oxo-2-propenyl)oxy]propyl]silyl]- ω -
 [[dimethyl[3-[(1-oxo-2-propenyl)oxy]propyl]silyl]oxy]- (9CI) (CA INDEX NAME)



RN 561065-52-9 HCAPLUS

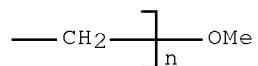
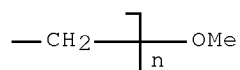
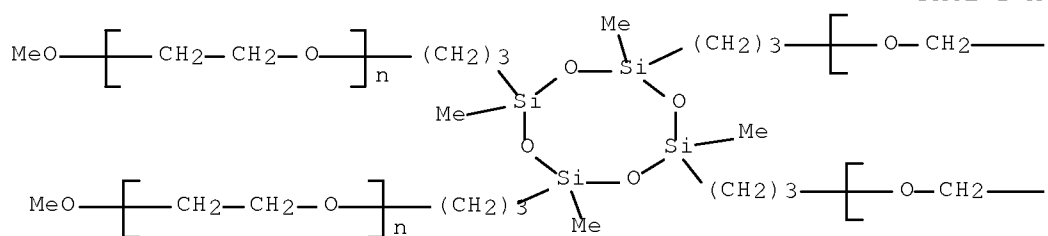
CN Poly(oxy-1,2-ethanediyl), $\alpha, \alpha', \alpha'', \alpha'''$ -
 [(2,4,6,8-tetramethylcyclotetrasiloxane-2,4,6,8-tetra-yl)tetra-3,1-
 propanediyl]tetrakis[ω -methoxy-, homopolymer (9CI) (CA INDEX
 NAME)

CM 1

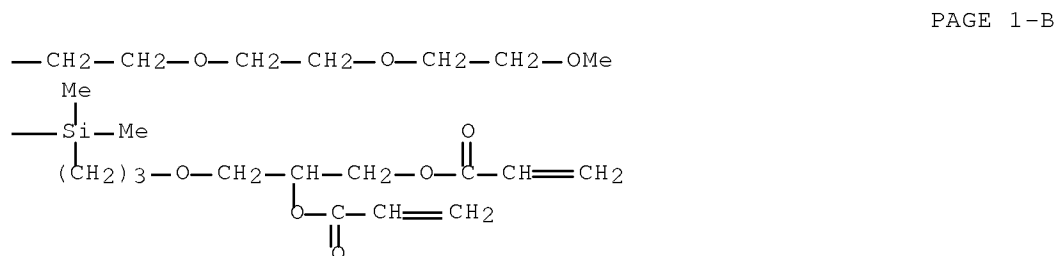
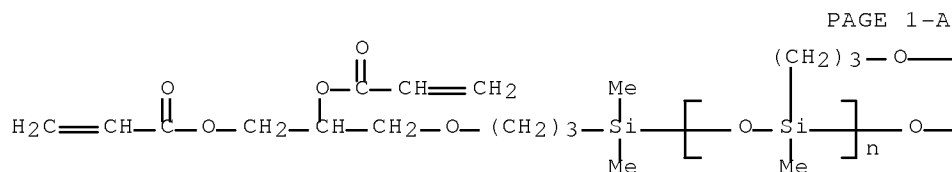
CRN 362060-08-0

CMF (C2 H4 O)_n (C2 H4 O)_n (C2 H4 O)_n (C2 H4 O)_n C20 H48 O8 Si4

CCI PMS



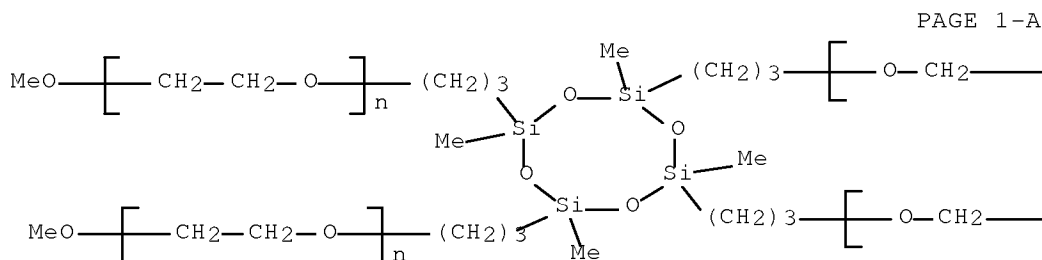
RN 561065-53-0 HCAPLUS
 CN Poly[oxy(1-methyl-5,8,11,14-tetraoxa-1-silapentadec-1-ylidene)],
 α -[[3-[2,3-bis[(1-oxo-2-propenyl)oxy]propoxy]propyl]dimethylsilyl]- ω -[[[3-[2,3-bis[(1-oxo-2-propenyl)oxy]propoxy]propyl]dimethylsilyl]oxy]- (9CI) (CA INDEX NAME)



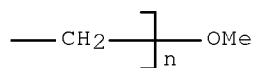
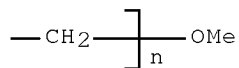
RN 561065-55-2 HCAPLUS
 CN Cyclotetrasiloxane, 2,4,6,8-tetramethyl-2,4,6,8-tetrakis(4,7,10,13-tetraoxatetradec-1-yl)-, polymer with
 $\alpha, \alpha', \alpha'', \alpha'''$ -[(2,4,6,8-tetramethylcyclotetrasiloxane-2,4,6,8-tetrayl)tetra-3,1-propanediyl]tetrakis[ω -methoxypoly(oxy-1,2-ethanediyl)] (9CI)
 (CA INDEX NAME)

CM 1

CRN 362060-08-0
 CMF (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n C20 H48 O8 Si4
 CCI PMS



PAGE 1-B

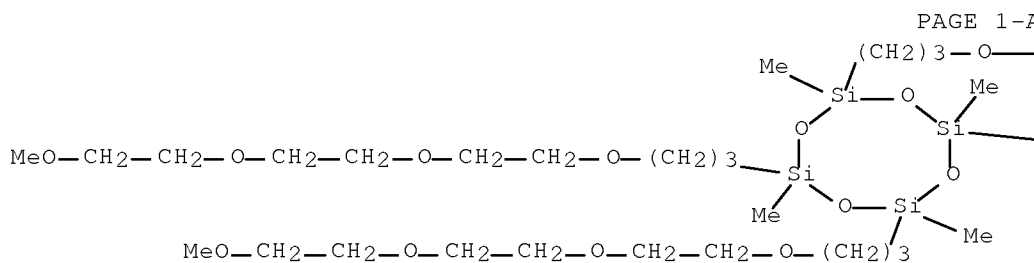


CM 2

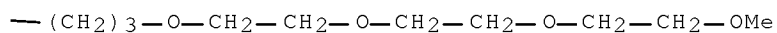
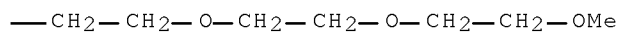
CRN 131718-86-0

CMF C44 H96 O20 Si4

PAGE 1-A



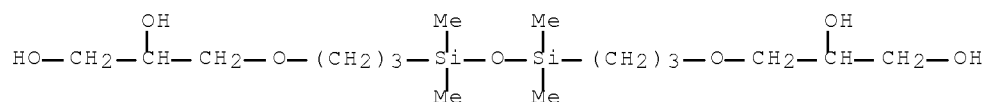
PAGE 1-B



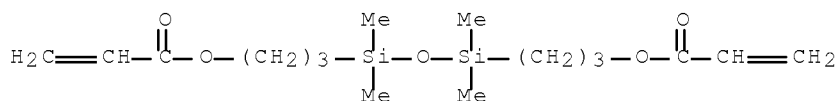
IT 104104-82-7F

(production of oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents)

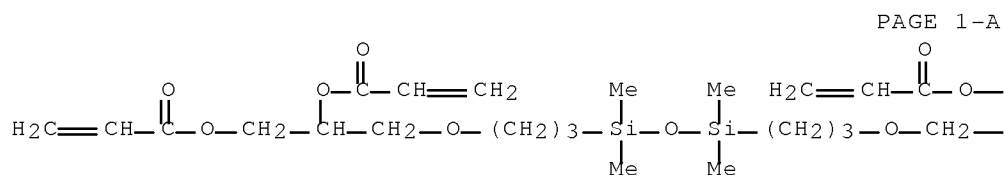
RN 104104-82-7 HCAPLUS

CN 4,9,14-Trioxa-8,10-disilaheptadecane-1,2,16,17-tetrol,
8,8,10,10-tetramethyl- (CA INDEX NAME)

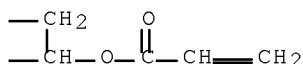
IT 17898-71-4P 561065-49-4P
 (terminating agent; production of oxyalkylene-containing
 acrylate-terminated polysiloxane crosslinking agents)
 RN 17898-71-4 HCAPLUS
 CN 2-Propenoic acid, (1,1,3,3-tetramethyl-1,3-disiloxanediyl)di-3,1-
 propanediyl ester (CA INDEX NAME)



RN 561065-49-4 HCAPLUS
 CN 2-Propenoic acid, 1,1',1'',1'''-[(1,1,3,3-tetramethyl-1,3-
 disiloxanediyl)bis(3,1-propanediyloxy-3,1,2-propanetriyl)] ester (CA
 INDEX NAME)



PAGE 1-B



INCL 524588000
 IPCI C08F0008-00 [ICM,7]
 IPCR C08J0005-18 [I,C*]; C08J0005-18 [I,A]; C08F0030-00 [I,C*]; C08F0030-08
 [I,A]; C08F0230-00 [I,C*]; C08F0230-08 [I,A]; C08F0299-00 [I,C*];
 C08F0299-08 [I,A]; C08G0077-00 [I,C*]; C08G0077-38 [I,A]; C08G0077-46
 [I,A]; C08L0071-00 [I,C*]; C08L0071-02 [I,A]; C08L0083-00 [I,C*];
 C08L0083-12 [I,A]; H01B0001-06 [I,C*]; H01B0001-06 [I,A]; H01M0010-36
 [I,C*]; H01M0010-40 [I,A]; C08K0005-00 [I,C*]; C08K0005-5415 [I,A]
 NCL 524/588.000; 429/313.000; 522/099.000; 524/366.000; 524/401.000;
 528/024.000
 CC 35-3 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 52
 ST acrylate terminated polyoxyalkylene graft polysiloxane
 crosslinking agent; lithium salt acrylate terminated

polyoxyalkylene polysiloxane solid electrolyte; solid polymer ionic conductor lithium secondary battery

- IT Polysiloxanes, preparation
(acrylate-terminated; oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents for use in lithium secondary batteries)
- IT Secondary batteries
(lithium; oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents for use in lithium secondary batteries)
- IT Crosslinking agents
(oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents for use in lithium secondary batteries)
- IT Polysiloxanes, preparation
(polyoxyalkylene-, graft; oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents for use in lithium secondary batteries)
- IT Polysiloxanes, preparation
(polyoxyethylene-, graft; oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents for use in lithium secondary batteries)
- IT Polyoxyalkylenes, preparation
(polysiloxane-, graft; oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents for use in lithium secondary batteries)
- IT 131718-86-0P 362060-08-0P 561065-47-2P
561065-48-3P
(monomer; production of oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents)
- IT 561065-50-7DP, acryloyloxy-terminated 561065-51-8P
561065-52-9DP, acryloyloxy-terminated 561065-53-0P
561065-55-2DP, acryloyloxy-terminated
(production of oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents)
- IT 18001-97-3P 19685-21-3P, Tri(ethylene glycol) allyl methyl ether
27252-80-8P, Poly(ethylene glycol) allyl methyl ether 86321-17-7P
104104-82-7P 173924-06-6P 173924-07-7P 561065-46-1P
(production of oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents)
- IT 106-95-6, Allyl bromide, reactions 107-18-6, Allyl alcohol, reactions 112-35-6, Tri(ethylene glycol) monomethyl ether
123-34-2, 3-Allyloxy-1,2-propanediol 530-62-1,
1,1'-Carbonyldiimidazole 814-68-6, Acryloyl chloride 2370-88-9,
2,4,6,8-Tetramethylcyclotetrasiloxane 3277-26-7,
1,1,3,3-Tetramethyldisiloxane 9004-74-4, Poly(ethylene glycol) monomethyl ether
(production of oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents)
- IT 17898-71-4P 561065-49-4P
(terminating agent; production of oxyalkylene-containing acrylate-terminated polysiloxane crosslinking agents)
- OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
- REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L48 ANSWER 8 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:531549 HCAPLUS Full-text
DOCUMENT NUMBER: 139:103723
TITLE: Polymer solid electrolyte and battery

INVENTOR(S): Miura, Katsuhito; Murakami, Satoshi; Tabuchi, Masato; Nakamura, Seiji
 PATENT ASSIGNEE(S): Daiso Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003197030	A	20030711	JP 2001-392067	20011225
			<--	
JP 4089221	B2	20080528		
PRIORITY APPLN. INFO.:			JP 2001-392067	20011225
			<--	

ED Entered STN: 11 Jul 2003

AB The electrolyte, especially for a secondary lithium battery, contains a polyether copolymer, having a siloxane bond in its side chain, and an electrolyte salt compound. The battery has the above electrolyte, a cathode, and an anode.

IT 558474-53-6 558474-55-8
 (electrolytes containing crosslinked ether copolymers for secondary lithium batteries)

RN 558474-53-6 HCAPLUS

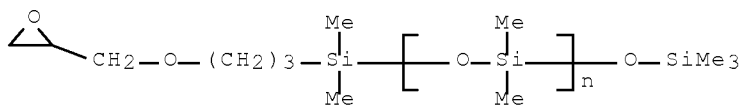
CN Poly[oxy(dimethylsilylene)], α -[dimethyl[3-(oxiranylmethoxy)propyl)silyl]- ω -[(trimethylsilyl)oxy]-, polymer with methyloxirane, oxirane and [(2-propenyloxy)methyl]oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 157723-26-7

CMF (C2 H6 O Si)_n C11 H26 O3 Si2

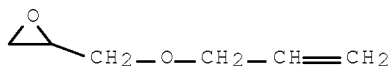
CCI PMS



CM 2

CRN 106-92-3

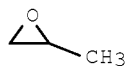
CMF C6 H10 O2



CM 3

CRN 75-56-9

CMF C3 H6 O



CM 4

CRN 75-21-8

CMF C2 H4 O



RN 558474-55-8 HCAPLUS

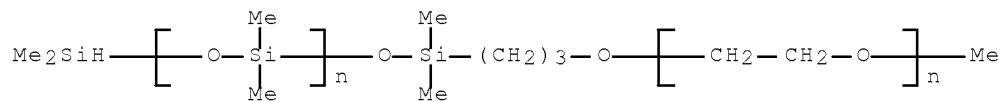
CN Poly[oxy(dimethylsilylene)], α -(dimethylsilyl)- ω -
 [(dimethylsilyl)oxy]-, polymer with diblock
 α -(dimethylsilyl)- ω -[[3-
 hydroxypropyl)dimethylsilyl]oxy]poly[oxy(dimethylsilylene)] ether with
 α -methyl- ω -hydroxypoly(oxy-1,2-ethanediyl), oxirane,
 [(2-propenyloxy)methyl]oxirane and 2,5,8,11-tetraoxadodec-1-yloxirane
 (9CI) (CA INDEX NAME)

CM 1

CRN 524938-89-4

CMF (C2 H6 O Si)_n (C2 H4 O)_n C8 H22 O2 Si2

CCI PMS

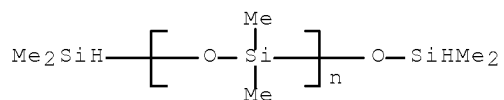


CM 2

CRN 115254-29-0

CMF (C2 H6 O Si)_n C4 H14 O Si2

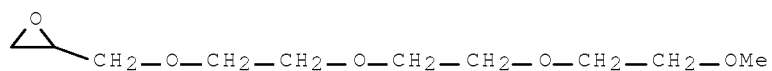
CCI PMS



CM 3

CRN 73692-54-3

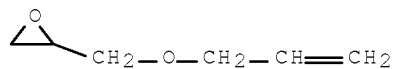
CMF C10 H20 O5



CM 4

CRN 106-92-3

CMF C6 H10 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



IPCI H01B0001-06 [I,A]; H01M0010-36 [I,A]; C08G0065-336 [I,A]; C08G0065-00 [I,C*]; C08K0003-00 [I,A]; C08L0071-02 [I,A]; C08L0071-00 [I,C*]
 IPCR C08K0003-00 [I,C*]; C08K0003-00 [I,A]; C08G0065-00 [I,C*]; C08G0065-336 [I,A]; C08L0071-00 [I,C*]; C08L0071-02 [I,A]; H01B0001-06 [I,C*]; H01B0001-06 [I,A]; H01M0010-36 [I,C*]; H01M0010-40 [I,A]; H01M0010-36 [I,A]

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)

IT Battery electrolytes

(electrolytes containing crosslinked ether copolymers for secondary lithium batteries)

IT Polyethers, uses
(electrolytes containing crosslinked ether copolymers for secondary lithium batteries)

IT Secondary batteries
(lithium; electrolytes containing crosslinked ether copolymers for secondary lithium batteries)

IT 7439-93-2, Lithium, uses
(anode; electrolytes containing crosslinked ether copolymers for secondary lithium batteries)

IT 108-32-7, Propylene carbonate 12190-79-3, Cobalt lithium oxide (CoLiO₂) 90076-65-6 558474-53-6 558474-55-8
(electrolytes containing crosslinked ether copolymers for secondary lithium batteries)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L48 ANSWER 9 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:77216 HCAPLUS Full-text

DOCUMENT NUMBER: 138:138870

TITLE: Modified silicon-based UV absorbers useful in crosslinkable polysiloxane coatings via sol-gel polymerization

INVENTOR(S): Payne, Donald N.; Wang, Yei-Ping H.

PATENT ASSIGNEE(S): Guardian Industries Corp., USA

SOURCE: U.S. Pat. Appl. Publ., 15 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
US 20030020049	A1	20030130	US 2001-917280	20010730
			<--	
US 6649212	B2	20031118		
PRIORITY APPLN. INFO.:			US 2001-917280	20010730
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 31 Jan 2003

AB A UV-radiation absorbing compound comprises (1) a polymerizable siloxane monomer having the formula (CH₂OCHCH₂)-R_z-[(Ra(OR)_b-Si-O-Si-Ra(OR)_b)]_c-R_z-(CH₂OCHCH₂), where (CH₂OCHCH₂) is an epoxy group, R_z is an organic group bonded to a siloxane Si atom and epoxy groups, Ra is an organic group bonded to a siloxane Si atom and comprises 1-6 carbon atoms, (OR)_b is an alkoxy-group where R is an organic radical having 1-6 carbon atoms, a and b ≥ 1, and (a+b) = 3, c ≥ 1 and represents the number of Si-O-Si repeat units, and (2) a second monomer derived from an UV-absorbing aromatic compound having ≥2 aromatic hydroxy groups reactive with epoxy groups on the first monomer. A method of preparing a UV-absorbing polymer material useful in UV screening film comprises the steps of (a) providing the epoxy-terminated siloxane monomer to a reaction vessel, (b) providing a hydroxy-containing aromatic compound to the reaction vessel. and (3) reacting the two monomers through epoxy and hydroxy functions to produce a condensation product having mol. weight of ≥400. The materials are durable and provide uniform UV absorption properties when used in various applications, including coatings on substrates such as glass.

IT 2602-34-8 1055053-10-5 1055053-11-6

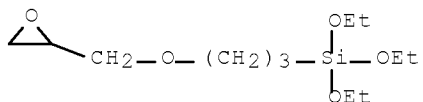
10/553,058

1175098-16-4

(Modified silicon-based UV absorbers useful in
crosslinkable polysiloxane coatings via sol-gel
polymerization)

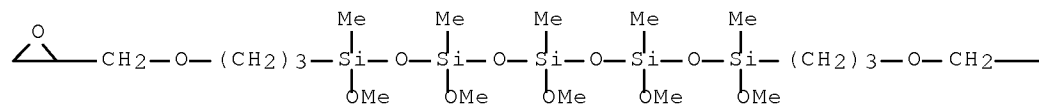
RN 2602-34-8 HCAPLUS

CN Oxirane, 2-[[3-(triethoxysilyl)propoxy)methyl]- (CA INDEX NAME)



RN 1055053-10-5 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED



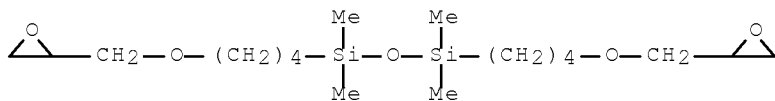
PAGE 1-A

PAGE 1-B



RN 1055053-11-6 HCAPLUS

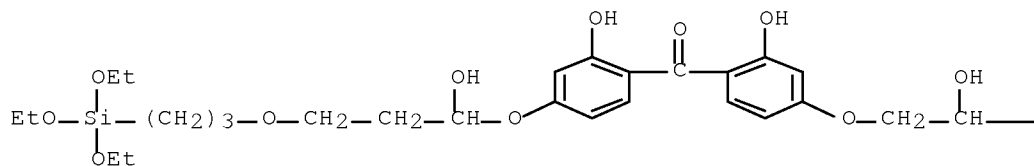
CN INDEX NAME NOT YET ASSIGNED



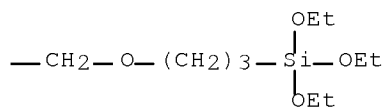
RN 1175098-16-4 HCAPLUS

CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A



PAGE 1-B



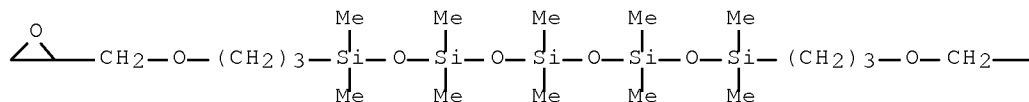
IT 18727-39-4P

(monomer; silicon-based UV absorbers useful in crosslinkable polysiloxane coatings)

RN 18727-39-4 HCAPLUS

CN Pentasiloxane, 1,1,3,3,5,5,7,7,9,9-decamethyl-1,9-bis[3-(oxiranylmethoxy)propyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

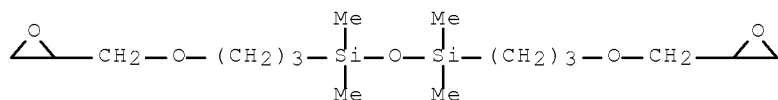


IT 126-80-7P

(monomer; synthesis of epoxy-terminated polysiloxanes useful in crosslinkable coatings)

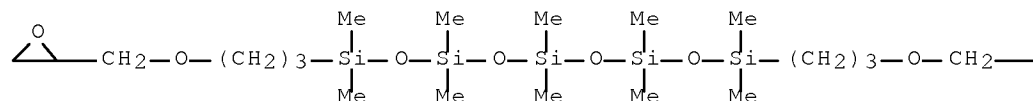
RN 126-80-7 HCAPLUS

CN Disiloxane, 1,1,3,3-tetramethyl-1,3-bis[3-(2-oxiranylmethoxy)propyl]- (CA INDEX NAME)



IT 491876-73-4P 491876-74-5P 491876-75-6P
 (silicon-based UV absorbers useful in crosslinkable polysiloxane coatings)
 RN 491876-73-4 HCAPLUS
 CN Methanone, bis(2,4-dihydroxyphenyl)-, polymer with 1,1,3,3,5,5,7,7,9,9-decamethyl-1,9-bis[3-(oxiranylmethoxy)propyl]pentasiloxane (9CI) (CA INDEX NAME)
 CM 1
 CRN 18727-39-4
 CMF C22 H52 O8 Si5

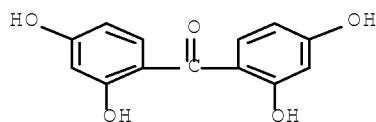
PAGE 1-A



PAGE 1-B



CM 2
 CRN 131-55-5
 CMF C13 H10 O5



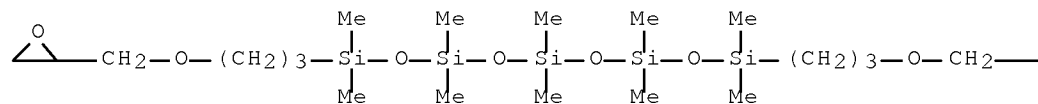
RN 491876-74-5 HCAPLUS
 CN Methanone, bis(2,4-dihydroxyphenyl)-, polymer with 1,1,3,3,5,5,7,7,9,9-decamethyl-1,9-bis[3-(oxiranylmethoxy)propyl]pentasiloxane, triethoxymethylsilane and triethoxyphenylsilane (9CI) (CA INDEX NAME)

CM 1

CRN 18727-39-4

CMF C22 H52 08 Si5

PAGE 1-A



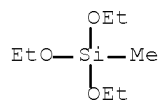
PAGE 1-B



CM 2

CRN 2031-67-6

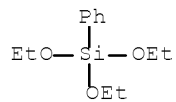
CMF C7 H18 O3 Si



CM 3

CRN 780-69-8

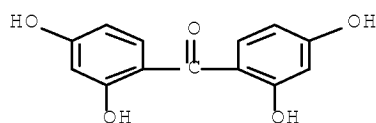
CMF C12 H20 O3 Si



CM 4

CRN 131-55-5

CMF C13 H10 O5



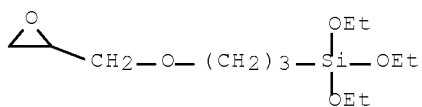
RN 491876-75-6 HCAPLUS

CN Methanone, bis(2,4-dihydroxyphenyl)-, polymer with triethoxymethylsilane, triethoxy[3-(oxiranylmethoxy)propyl]silane and triethoxyphenylsilane (9CI) (CA INDEX NAME)

CM 1

CRN 2602-34-8

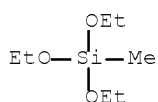
CMF C12 H26 O5 Si



CM 2

CRN 2031-67-6

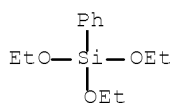
CMF C7 H18 O3 Si



CM 3

CRN 780-69-8

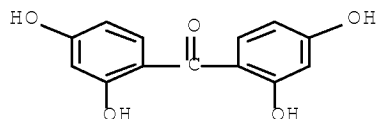
CMF C12 H20 O3 Si



CM 4

CRN 131-55-5

CMF C13 H10 O5

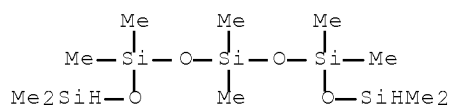


IT 995-83-5

(silicon-based UV absorbers useful in crosslinkable polysiloxane coatings)

RN 995-83-5 HCAPLUS

CN Pentasiloxane, 1,1,3,3,5,5,7,7,9,9-decamethyl- (CA INDEX NAME)



INCL 252400310; 528021000; 528029000

IPCI C09K0015-32 [ICM,7]; C09K0015-00 [ICM,7,C*]; C08G0077-06 [ICS,7]; C08G0077-04 [ICS,7]; C08G0077-00 [ICS,7,C*]

IPCR C03C0017-28 [I,C*]; C03C0017-30 [I,A]; C07F0007-00 [I,C*]; C07F0007-08 [I,A]; C08G0077-00 [I,C*]; C08G0077-50 [I,A]; C09D0183-14 [I,C*]; C09D0183-14 [I,A]

NCL 252/400.310; 528/021.000; 528/029.000; 427/160.000; 252/589.000; 525/476.000; 556/436.000

CC 42-3 (Coatings, Inks, and Related Products)

ST crosslinkage polysiloxane coating UV absorber; sol gel polymn polysiloxane coating

IT Polysiloxanes

(benzophenone-contained; silicon-based UV absorbers useful in crosslinkable polysiloxane coatings)

IT Sol-gel processing

(coating; silicon-based UV absorbers useful in crosslinkable polysiloxane coatings)

IT Sol-gel processing

(polymerization; silicon-based UV absorbers useful in crosslinkable polysiloxane coatings)

IT Coating materials

Hydrosilylation

UV stabilizers

(silicon-based UV absorbers useful in crosslinkable polysiloxane coatings)

IT Coating process

Polymerization

(sol-gel; silicon-based UV absorbers useful in crosslinkable polysiloxane coatings)

IT 2602-34-8 110926-46-0 1055053-10-5
 1055053-11-6 1175098-16-4
 (Modified silicon-based UV absorbers useful in
 crosslinkable polysiloxane coatings via sol-gel
 polymerization)

IT 491876-76-7P
 (hydrolysable monomer; silicon-based UV absorbers useful in
 crosslinkable polysiloxane coatings)

IT 7440-06-4, Platinum, uses 16941-12-1, Chloroplatinic acid
 (hydrosilylation catalyst; for preparation of
 epoxy-terminated siloxanes)

IT 18727-39-4P
 (monomer; silicon-based UV absorbers useful in
 crosslinkable polysiloxane coatings)

IT 126-80-7P
 (monomer; synthesis of epoxy-terminated polysiloxanes useful in
 crosslinkable coatings)

IT 491876-73-4P 491876-74-5P 491876-75-6P
 491876-77-8P
 (silicon-based UV absorbers useful in crosslinkable
 polysiloxane coatings)

IT 995-83-5
 (silicon-based UV absorbers useful in crosslinkable
 polysiloxane coatings)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
 RECORD (1 CITINGS)

L48 ANSWER 10 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2002:754753 HCAPLUS Full-text
 DOCUMENT NUMBER: 137:281875
 TITLE: Dye-sensitized photoelectrochemical cell
 INVENTOR(S): Komiya, Ryoichi; Han, Liyuan; Yamanaka, Ryohsuke;
 Ishiko, Eriko; Kono, Michiyuki
 PATENT ASSIGNEE(S): Sharp Corporation, Japan; Dai-Ichi Kogyo Seiyaku
 Co., Ltd.
 SOURCE: PCT Int. Appl., 52 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002078115	A1	20021003	WO 2002-JP2727	20020320
			<--	
W: AU, CN, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,				
NL, PT, SE, TR				
JP 2002289271	A	20021004	JP 2001-88647	20010326
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AU 2002241268	A1	20021008	AU 2002-241268	20020320
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AU 2002241268	B2	20070201		
EP 1387430	A1	20040204	EP 2002-707125	20020320
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10/553,058

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
PT, IE, FI, CY, TR

CN 1529922 A 20040915 CN 2002-808434 20020320
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CN 1287482 C 20061129
US 20050076949 A1 20050414 US 2003-473464 20031029
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PRIORITY APPLN. INFO.:

JP 2001-88647 A 20010326
<--

JP 2001-88648 A 20010326
<--

JP 2001-88649 A 20010326
<--

WO 2002-JP2727 W 20020320
<--

ED Entered STN: 04 Oct 2002

AB The cell has a transparent conductive film on a transparent substrate, a conductive substrate facing the transparent conductive film, a porous semiconductor layer with an adsorbed dye between the transparent conductive film and the conductive substrate, and an electrolyte; where the electrolyte is a polymer or gel electrolyte containing a redox couple and a solvent in crosslinked network of a 1st isocyanate group containing compound and a 2nd compound containing amino group or carboxyl and/or hydroxy groups, or a 2nd compound capable of crosslinking by reacting with isocyanate groups.

IT 392304-92-6 467219-01-8, FM 3311-glycerol
ethoxide propoxide-Jeffamine D 400-TDI copolymer 467219-07-4
, Phantol PL 2010-TDI-X-22-162C copolymer
(compns. of polyether-polyurea-polyurethane containing electrolytes for dye-sensitized photoelectrochem. cells)

RN 392304-92-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]- ω -[[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]oxy]-, polymer with 1,3-diisocyanatomethylbenzene (CA INDEX NAME)

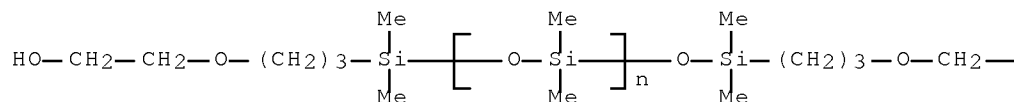
CM 1

CRN 156327-07-0

CMF (C2 H6 O Si)n C14 H34 O5 Si2

CCI PMS

PAGE 1-A

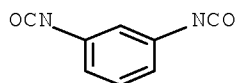


PAGE 1-B

—CH₂—OH

CM 2

CRN 26471-62-5
 CMF C9 H6 N2 O2
 CCI IDS



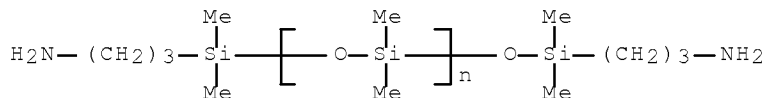
D1—Me

RN 467219-01-8 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(3-aminopropyl)dimethylsilyl]-
 ω -[[[(3-aminopropyl)dimethylsilyl]oxy]-, polymer with
 α -(2-aminomethylethyl)- ω -(2-
 aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)],
 1,3-diisocyanatomethylbenzene and methyloxirane polymer with oxirane
 ether with 1,2,3-propanetriol (3:1) (9CI) (CA INDEX NAME)

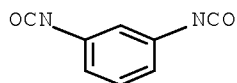
CM 1

CRN 97917-34-5
 CMF (C2 H6 O Si)_n C10 H28 N2 O Si2
 CCI PMS



CM 2

CRN 26471-62-5
 CMF C9 H6 N2 O2
 CCI IDS



D1—Me

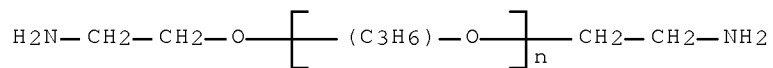
10/553,058

CM 3

CRN 9046-10-0

CMF (C3 H6 O)_n C6 H16 N2 O

CCI IDS, PMS



2 (D1-Me)

CM 4

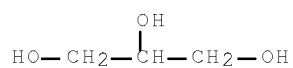
CRN 9082-00-2

CMF C3 H8 O3 . 3 (C3 H6 O . C2 H4 O) x

CM 5

CRN 56-81-5

CMF C3 H8 O3



CM 6

CRN 9003-11-6

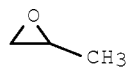
CMF (C3 H6 O . C2 H4 O) x

CCI PMS

CM 7

CRN 75-56-9

CMF C3 H6 O



CM 8

CRN 75-21-8

CMF C2 H4 O



RN 467219-07-4 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(4-chloro-4-oxobutyl)dimethylsilyl]- ω -[(4-chloro-4-oxobutyl)dimethylsilyl]oxy]-, polymer with 1,3-diisocyanatomethylbenzene and Phantol PL 2010 (9CI) (CA INDEX NAME)

CM 1

CRN 467216-83-7

CMF Unspecified

CCI PMS, MAN

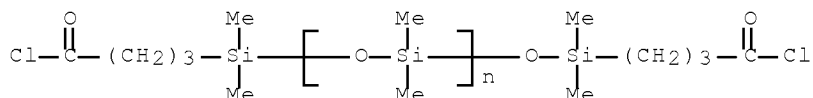
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 155886-23-0

CMF (C2 H6 O Si)_n C12 H24 Cl2 O3 Si2

CCI PMS

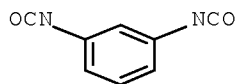


CM 3

CRN 26471-62-5

CMF C9 H6 N2 O2

CCI IDS



D1-Me

IPCI H01M0014-00 [ICM,7]; H01L0031-04 [ICS,7]

IPCR H01G0009-20 [I,C*]; H01G0009-20 [I,A]; H01M0006-18 [N,C*]; H01M0006-18 [N,A]; H01M0014-00 [I,C*]; H01M0014-00 [I,A]

CC 52-2 (Electrochemical, Radiational, and Thermal Energy

Technology)

IT 108-32-7, Propylene carbonate 4098-71-9D, Isophoronediiisocyanate, polymers with hexachlorocyclotriphosphazane-polyethylene glycol condensate 7553-56-2, Iodine, uses 9017-05-4 10377-51-2, Lithium iodide 25322-68-3D, Polyethylene glycol, condensate with hexachlorocyclotriphosphazane, polymer with tdi 25766-15-8 26471-62-5D, Tdi, polymer with jeffamine t 3000 and poly i.p.-57516-88-8 64852-22-8D, Jeffamine t 3000, polymer with Poly bd HTP 9 64852-22-8D, Jeffamine T 3000, polymer with poly i.p. and tdi 69521-63-7, Sorbitol ethoxide propoxide-TDI copolymer 107882-89-3, Jeffamine t 5000-TDI copolymer 308142-14-5, Diethyltoluenediamine-PTMG 2000-TDI copolymer ~~392304-92-6~~ 466696-68-4 466696-69-5 466696-70-8 466696-71-9 466696-72-0 466696-73-1 466696-74-2 466696-75-3 466696-76-4 466696-77-5 467218-95-7, Glycerol ethoxide propoxide-Jeffamine T 5000-TDI copolymer 467218-97-9 467218-98-0, Glycerol ethoxide propoxide-Jeffamine D 230-TDI copolymer 467218-99-1, Glycerol ethoxide propoxide-Jeffamine D 400-Placcel L 205AL-TDI copolymer 467219-00-7, Ethylene diamine-Placcel CD 205PL-TDI copolymer ~~467219-01-8~~, FM 3311-glycerol ethoxide propoxide-Jeffamine D 400-TDI copolymer 467219-02-9 467219-03-0, Phantol PL 180-glycerin ethoxide propoxide-TDI copolymer 467219-04-1, Placcel CD 221-PTMG 2000-TDI copolymer 467219-05-2 467219-06-3 ~~467219-07-4~~, Phantol PL 2010-TDI-X-22-162C copolymer 467219-08-5, Diglycerin ethoxide propoxide-Phantol PL 180-TDI copolymer 467219-09-6 467219-10-9

(compns. of polyether-polyurea-polyurethane containing electrolytes for dye-sensitized photoelectrochem. cells)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L48 ANSWER 11 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:264972 HCAPLUS Full-text

DOCUMENT NUMBER: 136:311058

TITLE: Oil-, chemical-, weather-, and heat-resistant thermoplastic

ethylene- α -olefin-nonconjugated diene elastomer compositions

INVENTOR(S): Honda, Masayuki; Tsujihana, Hajime; Noda, Nobuyasu; Yoshida, Nakajiro

PATENT ASSIGNEE(S): Shin-Etsu Polymer Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

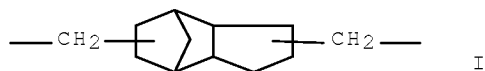
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2002105261	A	20020410	JP 2000-299018	20000929
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JP 3291494	B2	20020610		
PRIORITY APPLN. INFO.:			JP 2000-299018	20000929
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ED Entered STN: 10 Apr 2002

GI



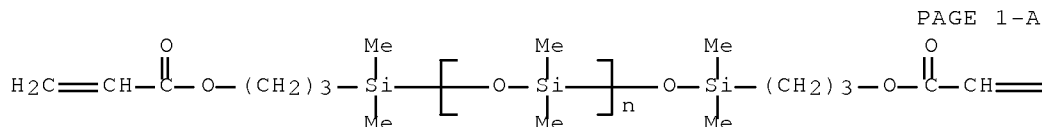
AB The compns. contain 100 parts ethylene- α -olefin-nonconjugated diene rubbers prepared from vinylnorbornene (VNB), 5-300 parts thermoplastic resins, and crosslinking inhibitors selected from 0.05-50 parts compds. (mol. weight 300-10,000) bearing ≥ 5 acryloyl groups and no siloxane linkages, 0.05-50 parts compds. (mol. weight 200-10,000) bearing 2-5 acryloyl groups and (CR12)_m (R1 = H, C1-3 alkyl, Ph, xylyl; m ≥ 3 ; total C number ≥ 7) groups, and 0.05-600 parts compds. I (mol. wts. 500-1,000,000) having ≥ 2 unsatd. groups selected from acryloyl, methacryloyl, vinyl, propenyl, 2-butenyl, and allyl groups. The crosslinking inhibitors are used for prevention of formation of crosslinked particles. Thus, a composition containing R 4832 (ethylene-propylene-VNB copolymer), E 2900 (isotactic and atactic polypropylenes), X 93-1295 (hydrosilylation agent), AO 60 (phenol-based antioxidant), PW 90 (paraffin oil), and Aerosil 200 (dry SiO₂) was mixed with Cat PL 50T (Pt-based hydrosilylation catalyst) and an acryloyl-containing compound (crosslinked particle inhibitor) and cured to give a test piece showing hardness 73, tensile strength 13.9 MPa, and elongation 296%.

IT 58170-10-8

(crosslinking inhibitors; oil-, chemical-, weather-, and heat-resistant thermoplastic ethylene- α -olefin-nonconjugated diene elastomer compns.)

RN 58170-10-8 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[3-[(1-oxo-2-propen-1-yl)oxy]propyl]silyl]- ω -[[dimethyl[3-[(1-oxo-2-propen-1-yl)oxy]propyl]silyl]oxy]- (CA INDEX NAME)



PAGE 1-B

=CH₂

IPCI C08L0023-16 [ICM,7]; C08K0005-00 [ICS,7]; C08L0023-00 [ICS,7]; C08L0025-00 [ICS,7]; C08L0053-02 [ICS,7]; C08L0053-00 [ICS,7,C*]; C08L0101-00 [ICS,7]

IPCR C08L0023-16 [I,A]; C08K0005-00 [I,C*]; C08K0005-00 [I,A]; C08L0023-00 [I,C*]; C08L0023-00 [I,A]; C08L0023-26 [I,A]; C08L0025-00 [I,C*]; C08L0025-00 [I,A]; C08L0053-00 [I,C*]; C08L0053-02 [I,A]; C08L0101-00 [I,C*]; C08L0101-00 [I,A]

CC 39-9 (Synthetic Elastomers and Natural Rubber)
 IT Polyesters, uses
 Polysiloxanes, uses
 (acrylates, ~~crosslinking~~ inhibitors; oil-, chemical-,
 weather-, and heat-resistant thermoplastic
 ethylene- α -olefin-nonconjugated diene elastomer compns.)
 IT Polysiloxanes, uses
 (allyl-containing, ~~crosslinking~~ inhibitors; oil-, chemical-,
 weather-, and heat-resistant thermoplastic
 ethylene- α -olefin-nonconjugated diene elastomer compns.)
 IT Polysiloxanes, uses
 (vinyl, ~~crosslinking~~ inhibitors; oil-, chemical-, weather-,
 and heat-resistant thermoplastic
 ethylene- α -olefin-nonconjugated diene elastomer compns.)
 IT 9016-00-6D, Polydimethylsiloxane, acrylates 31900-57-9D,
 Polydimethylsiloxane, acrylates 42594-17-2 58170-10-8
 107481-28-7, 1,9-Nonanediol diacrylate 155665-02-4D,
 Dimethylsilanediol-methylvinylsilanediol copolymer,
 trimethylsilyl-terminated 409105-81-3
 (~~crosslinking~~ inhibitors; oil-, chemical-, weather-, and
 heat-resistant thermoplastic ethylene- α -olefin-nonconjugated
 diene elastomer compns.)
 OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
 RECORD (1 CITINGS)

L48 ANSWER 12 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2002:90149 HCAPLUS Full-text

DOCUMENT NUMBER: 136:152485

TITLE: Thermoplastic silicone elastomers from
 compatibilized polyamide resins

INVENTOR(S): Brewer, Christopher M.; Chorvath, Igor; Lee,
 Michael K.; Lee, Yongjun; Li, Dawei; Nakanishi,
 Koji; Oldinski, Robert L.; Petroff, Lenin J.;
 Rabe, Richard L.; Romenesko, David J.

PATENT ASSIGNEE(S): Dow Corning Corporation, USA; Dow Corning Asia,
 Ltd.

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002008335	A2	20020131	WO 2001-US23301	20010724
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WO 2002008335	A3	20020606		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2416880	A1	20020131	CA 2001-2416880	20010724

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CA 2416880	C	20091215		
EP 1305367	A2	20030502	EP 2001-959153	20010724
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EP 1305367	B1	20050615		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,				
PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004504468	T	20040212	JP 2002-514233	20010724
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CN 1188468	C	20050209	CN 2001-808872	20010724
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AT 297965	T	20050715	AT 2001-959153	20010724
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MX 2002010449	A	20040910	MX 2002-10449	20021023
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KR 803647	B1	20080219	KR 2003-701074	20030124
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PRIORITY APPLN. INFO.:			US 2000-616625	A 20000726
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			WO 2001-US23301	W 20010724
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ED Entered STN: 01 Feb 2002

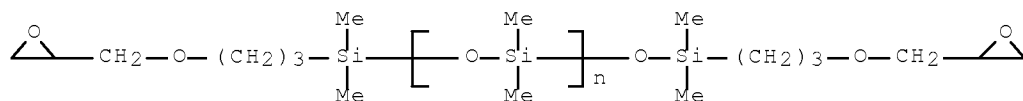
AB A method for preparing a thermoplastic elastomer is disclosed, the method comprising (I) mixing, (A) a rheol. stable polyamide resin having a m.p. or glass transition temperature of 25-275°, (B) a silicone base comprising (B') 100 parts of a diorganopolysiloxane gum having a plasticity of at least 30 and having an average of at least 2 alkenyl groups in its mol. and (B'') 5 to 200 parts of a reinforcing filler, the weight ratio of the silicone base to the polyamide resin being greater than 35:65 to 85:15, (C) a compatibilizer selected from (i) a coupling agent, (ii) a functional diorganopolysiloxane or (iii) a copolymer comprising at least one diorganopolysiloxane block and at least one block selected from polyamide, polyether, polyurethane, polyurea, polycarbonate or polyacrylate, (D) and organohydrido silicon compound which contains an average of at least 2 silicon-bonded hydrogen groups in its mol. and (E) a hydrosilylation catalyst, components (D) and (E) being present in an amount sufficient to cure the diorganopolysiloxane (B'); and (II) dynamically curing the diorganopolysiloxane (B').

IT 130167-23-6, GP 504

(GP-504; thermoplastic silicone elastomers from compatibilized polyamide resins)

RN 130167-23-6 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[3-(2-oxiranylmethoxy)propyl]silyl]- ω -[[dimethyl[3-(2-oxiranylmethoxy)propyl]silyl]oxy]- (CA INDEX NAME)



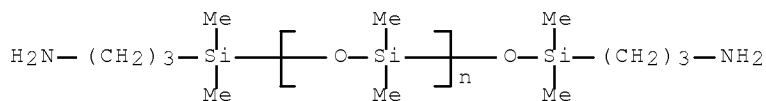
IT 97917-34-5, DMS-A 12

(thermoplastic silicone elastomers from compatibilized polyamide resins)

RN 97917-34-5 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[(3-aminopropyl)dimethylsilyl]-

ω-[[(3-aminopropyl)dimethylsilyl]oxy]- (CA INDEX NAME)



IPCI C08L0083-00 [ICM,7]
 IPCR C08J0003-24 [I,C*]; C08J0003-24 [I,A]; C08K0003-00 [I,C*]; C08K0003-16 [I,A]; C08L0077-00 [I,C*]; C08L0077-00 [I,A]; C08L0077-02 [I,A]; C08L0077-06 [I,A]; C08L0083-00 [I,C*]; C08L0083-04 [I,A]
 CC 39-9 (Synthetic Elastomers and Natural Rubber)
 IT 130167-23-6, GP 504
 (GP-504; thermoplastic silicone elastomers from compatibilized polyamide resins)
 IT 156118-35-3D, Dimethylsilanediol-methylsilanediol copolymer, trimethylsilyl-terminated
 (crosslinker; thermoplastic silicone elastomers from compatibilized polyamide resins)
 IT 9016-00-6D, Poly[oxy(dimethylsilylene)], amine-functional
 9016-00-6D, Poly[oxy(dimethylsilylene)], epoxy-functional
 9016-00-6D, Poly[oxy(dimethylsilylene)], succinic anhydride-functional
 31900-57-9D, Polydimethylsiloxane, aminopropyl-terminated
~~97917-34-5~~, DMS-A 12 156623-20-0,
 Dimethylsilanediol-(epoxypropoxypropyl)methylsilanediol copolymer
 (thermoplastic silicone elastomers from compatibilized polyamide resins)
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L48 ANSWER 13 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2001:635715 HCAPLUS Full-text
 DOCUMENT NUMBER: 135:183330
 TITLE: Releasing films for casting solid electrolytes
 INVENTOR(S): Morimoto, Yukiaki
 PATENT ASSIGNEE(S): Teijin Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

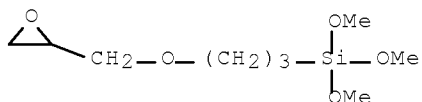
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2001236992	A	20010831	JP 2000-44127	20000222
			<--	
PRIORITY APPLN. INFO.:			JP 2000-44127	20000222
			<--	

ED Entered STN: 31 Aug 2001

AB The releasing films have a substrate of a polyester, prepared by Ge compound catalytic condensation, and a silicone releasing layer on the surface of the substrate; where the silicone layer has a central line average roughness height ≤0.4 μm, and when an adhesive tape is attached to the releasing layer

and then peeled, the amount of Si transferred to the adhesive surface is ≤ 5 atomic%, determined by electron spectroscopy. The releasing film may have a YSiX_3 (X = alkoxy, group, Y = epoxy, amino, vinyl, methacryl, mercapto, or alkoxy groups) crosslinked primer layer between the substrate and the silicone layer. The solid electrolytes are useful for secondary Li batteries.

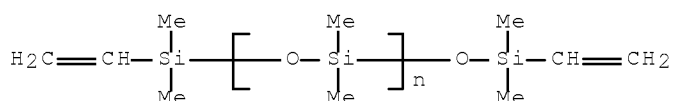
IT	2530-83-8, 3-Glycidoxypopyltrimethoxysilane (crosslinked primer layers in silicone coated polyester releasing films for casting battery electrolytes)
RN	2530-83-8 HCAPLUS
CN	Oxirane, 2-[[3-(trimethoxysilyl)propoxy)methyl]- (CA INDEX NAME)



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IT      59942-04-0, Dimethyl siloxane, vinyl terminated
        (polyester substrates for silicone coated releasing films for
        casting battery electrolytes)
RN      59942-04-0  HCAPLUS
CN      Poly[oxy(dimethylsilylene)],  $\alpha$ -(ethenyldimethylsilyl)- $\omega$ -
        [(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)

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IPCI H01M0010-40 [ICM,7]; H01M0010-36 [ICM,7,C*]; B32B0027-00 [ICS,7];
      B32B0027-36 [ICS,7]; H01B0013-00 [ICS,7]
IPCR B32B0027-00 [I,C*]; B32B0027-00 [I,A]; B32B0027-36 [I,C*]; B32B0027-36
      [I,A]; H01B0013-00 [I,C*]; H01B0013-00 [I,A]; H01M0010-36 [I,C*];
      H01M0010-40 [I,A]
CC 52-2 (Electrochemical, Radiational, and Thermal Energy
      Technology)
IT 2530-83-8, 3-Glycidoxypopyltrimethoxysilane
      (crosslinked primer layers in silicone coated polyester
      releasing films for casting battery electrolytes)
IT 32032-92-1, Dimethyl siloxane, methyl terminated 59942-04-0
      , Dimethyl siloxane, vinyl terminated
      (polyester substrates for silicone coated releasing films for
      casting battery electrolytes)

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L48 ANSWER 14 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:432925 HCAPLUS Full-text
DOCUMENT NUMBER: 135:47220
TITLE: Self-adhesive, addition-reaction-curable silicone
elastomer compositions
INVENTOR(S): Muller, Philipp; Achenbach, Frank; Eberl, Georg
PATENT ASSIGNEE(S): Wacker-Chemie G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1106662	A2	20010613	EP 2000-120282	20000928
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EP 1106662	A3	20011212		
EP 1106662	B1	20040128		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19959412	A1	20010621	DE 1999-19959412	19991209
			<--	
US 6743515	B1	20040601	US 2000-687824	20001013
			<--	
CA 2323738	A1	20010609	CA 2000-2323738	20001018
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CA 2323738	C	20060912		
JP 2001200162	A	20010724	JP 2000-371854	20001206
			<--	
JP 4095769	B2	20080604		
CN 1304959	A	20010725	CN 2000-134031	20001207
			<--	
CN 1147539	C	20040428		
PRIORITY APPLN. INFO.:			DE 1999-19959412	A 19991209
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

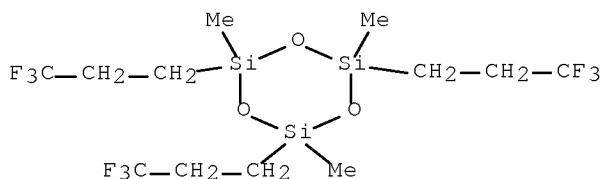
ED Entered STN: 15 Jun 2001

AB Title compns. with high crosslinking rate at low temps. and good vulcanizate mech. properties contain diorganopolysiloxane, organohydrogenpolysiloxane, organosilanes having epoxy and hydrolyzable groups, and hydrosilylation catalysts .

IT ~~2374-14-3~~, 1,3,5-Trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane
 (self-adhesive, addition-reaction-curable silicone elastomer compns. with high vulcanizing rate at low temps.)

RN 2374-14-3 HCAPLUS

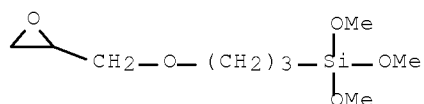
CN Cyclotrisiloxane, 2,4,6-trimethyl-2,4,6-tris(3,3,3-trifluoropropyl)-
 (CA INDEX NAME)



IT ~~2530-83-8~~, Glycidyloxypropyltrimethoxysilane
 (vulcanizing agents; self-adhesive, addition-reaction-curable silicone elastomer compns. with high vulcanizing rate at low temps.)

RN 2530-83-8 HCAPLUS

CN Oxirane, 2-[[3-(trimethoxysilyl)propoxy]methyl]- (CA INDEX NAME)



IPCI C09D0183-07 [ICM,6]; C08L0083-07 [ICS,6]; C08L0083-00 [ICS,6,C*];
 C08K0005-5435 [ICS,6]; C08K0005-00 [ICS,6,C*]
 IPCR C08K0005-00 [I,C*]; C08K0005-54 [I,A]; C08K0005-5435 [I,A];
 C08L0083-00 [I,C*]; C08L0083-04 [I,A]; C08L0083-05 [I,A]; C08L0083-07
 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]; C09D0183-07 [I,C*];
 C09D0183-07 [I,A]; C09J0183-00 [I,C*]; C09J0183-05 [I,A]; C09J0183-07
 [I,A]; C09J0183-08 [I,A]
 CC 38-3 (Plastics Fabrication and Uses)
 IT 2374-14-3, 1,3,5-Trimethyl-1,3,5-tris(3,3,3-
 trifluoropropyl)cyclotrisiloxane
 (self-adhesive, addition-reaction-curable silicone elastomer compns.
 with high vulcanizing rate at low temps.)
 IT 2530-83-8, Glycidyloxypropyltrimethoxysilane
 (vulcanizing agents; self-adhesive, addition-reaction-curable silicone
 elastomer compns. with high vulcanizing rate at low temps.)
 OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS
 RECORD (13 CITINGS)
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L48 ANSWER 15 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2000:290669 HCAPLUS Full-text
 DOCUMENT NUMBER: 132:309593
 TITLE: Silicone rubber-forming polysiloxane compositions
 containing adhesion promoter, their manufacture
 and use in electronic packaging
 INVENTOR(S): Lee, Yeong-Joo; Livingston, Michael Dean; Zhang,
 Hongxi; Schmidt, Randall Gene
 PATENT ASSIGNEE(S): Dow Corning Corporation, USA
 SOURCE: Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 997498	A1	20000503	EP 1999-308319	19991021
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6124407	A	20000926	US 1998-181211	19981028
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TW 255840	B	20060601	TW 1999-88117975	19991018
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JP 2000129132	A	20000509	JP 1999-305635	19991027
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KR 2000029355	A	20000525	KR 1999-46919	19991027

PRIORITY APPLN. INFO.:

US 1998-181211

A 19981028

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 05 May 2000

AB The compns. are prepared by mixing 100 parts polydiorganosiloxane containing at least 2 Si-bonded alkenyl groups, 75-150 parts organopolysiloxane having a number-average mol. weight (Mn) 2000-5000 and comprising R3R4SiO1/2 units (R3 = saturated hydrocarbyl; R4 = R3, alkenyl) and SiO4/2 units, an organohydrogenpolysiloxane crosslinking agent, an adhesion promoter comprising a mixture of polysiloxane containing Si-bonded alkenyl and OH groups resp. and an epoxy-terminated alkoxy silane in an amount to effect the adhesion and a Pt hydrosilylation catalyst in an amount to cure the compns. The compns. display good adhesion to a wide variety of materials and are useful as encapsulants in semiconductor chip scale packages. Thus, 100 parts dimethylvinylsiloxy-terminated polydimethylsiloxane wherein 75% having d.p. of 830 and 25% having d.p. of 434, 100 parts polysiloxane having Mn 2500 and consisting of a ratio of combination of (CH3)2CH2=CHSiO1/2 and (CH3)3SiO1/2 units to SiO4/2 unit as 1:1, 19 parts trimethylsiloxy-terminated dimethylsiloxane-methylhydrogensiloxane having a SiH content 0.7 to 0.8%, 2.2 parts trimethylsiloxy-terminated polymethylhydrogensiloxane having a SiH content 1.4 to 1.75%, 4.8 parts blend of 43.5% OH-terminated dimethylmethylvinylsiloxane (I) containing 2.25-4.0% of Si-bonded OH groups and 27.5% of vinyl groups, 50% glycidoxypropyltrimethoxysilane (II) and 6.5% of a reaction product from I and II, 2.4 parts carbon black and 0.2 parts 3,5-dimethyl-1-hexyn-3-ol were mixed then 0.01 parts Pt complex of 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane was added after 2 min. to give a cured composition with Durometer hardness (Shore A) 75, tensile strength 8.1 MPa, elongation 69%, coefficient of thermal expansion 246 and 180° peel adhesion 149 N/m.

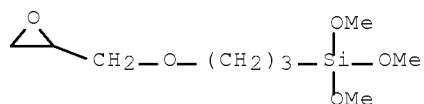
IT 2530-83-8 2530-83-8D, reaction products with
OH-terminated vinyl-containing siloxanes

(adhesion promoter; silicone rubber-forming polysiloxane compns.

containing adhesion promoter, manufacture and use in electronic packaging)

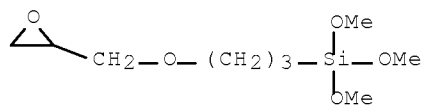
RN 2530-83-8 HCAPLUS

CN Oxirane, 2-[[3-(trimethoxysilyl)propoxy]methyl]- (CA INDEX NAME)



RN 2530-83-8 HCAPLUS

CN Oxirane, 2-[[3-(trimethoxysilyl)propoxy]methyl]- (CA INDEX NAME)



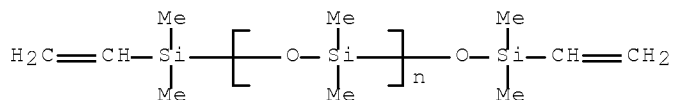
IT 59942-04-0

(silicone rubber-forming polysiloxane compns. containing adhesion

promoter, manufacture and use in electronic packaging)

RN 59942-04-0 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -(ethenyldimethylsilyl)- ω -
[(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)



- IPCI C08L0083-04 [ICM,6]; C08L0083-07 [ICS,6]; C08L0083-00 [ICS,6,C*];
H01L0023-29 [ICS,6]; H01L0023-28 [ICS,6,C*]
- IPCR C08L0083-07 [I,A]; C08L0083-00 [I,C*]; C08L0083-04 [I,A]; C08L0083-05
[I,A]; H01L0023-28 [I,C*]; H01L0023-29 [I,A]
- CC 39-9 (Synthetic Elastomers and Natural Rubber)
Section cross-reference(s): 38, 76
- ST polysiloxane elastomer compn electronic package; epoxy silane adhesion
promoter polysiloxane elastomer; silicone rubber formation
polysiloxane crosslinking; hydrosilylation
crosslinking siloxane resin silicone rubber
- IT Hydrosilylation
(crosslinking; silicone rubber-forming polysiloxane
compns. containing adhesion promoter, manufacture and use in electronic
packaging)
- IT Polysiloxanes, uses
(hydrosilylation crosslinkable; silicone rubber-forming
polysiloxane compns. containing adhesion promoter, manufacture and use in
electronic packaging)
- IT Crosslinking
(hydrosilylation; silicone rubber-forming polysiloxane compns.
containing adhesion promoter, manufacture and use in electronic packaging)
- IT 2530-83-8 2530-83-8D, reaction products with
OH-terminated vinyl-containing siloxanes 155665-02-4D,
Dimethylsilanediol-methylvinylsilanediol copolymer, OH-terminated,
reaction products with glycidoxypropyltrimethoxysilane
(adhesion promoter; silicone rubber-forming polysiloxane compns.
containing adhesion promoter, manufacture and use in electronic packaging)
- IT 49718-23-2D, Methylsilanediol polymer, trimethylsilyl-terminated
(crosslinking agent mixture; silicone rubber-forming
polysiloxane compns. containing adhesion promoter, manufacture and use in
electronic packaging)
- IT 26403-67-8, Trimethylsilyl-terminated methyl hydrogen siloxane
156118-35-3D, Dimethylsilanediol-methylsilanediol copolymer,
trimethylsilyl-terminated
(crosslinking agent mixture; silicone rubber-forming
polysiloxane compns. containing adhesion promoter, manufacture and use in
electronic packaging)
- IT 7440-06-4D, Platinum, 1,3-divinyltetramethyldisiloxane complex, uses
(hydrosilylation catalyst; silicone
rubber-forming polysiloxane compns. containing adhesion promoter,
manufacture and use in electronic packaging)
- IT 2627-95-4D, 1,3-Divinyltetramethyldisiloxane, Platinum complex
(hydrosilylation catalyst; silicone
rubber-forming polysiloxane compns. containing adhesion promoter,
manufacture and use in electronic packaging)

IT 31900-57-9D, Dimethylsilanediol polymer, dimethylvinylsilyl-terminated
~~59942-04-0~~ 107712-53-8, Silicic acid dimethylvinylsilyl
 trimethylsilyl ester

(silicone rubber-forming polysiloxane compns. containing adhesion
 promoter, manufacture and use in electronic packaging)

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS
 RECORD (7 CITINGS)
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L48 ANSWER 16 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:566121 HCAPLUS Full-text

DOCUMENT NUMBER: 131:185739

TITLE: ~~Crosslinkable~~ silicone adhesive
 composition and its use for bonding various
 substrates

INVENTOR(S): Bohin, Fabrice; Joubert, Gerard; Loubet, Olivier;
 Pouchelon, Alain; Lorenzetti, Dominique

PATENT ASSIGNEE(S): Rhodia Chimie, Fr.

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9943753	A1	19990902	WO 1999-FR419	19990224
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DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,				
IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,				
MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				
SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,				
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2775481	A1	19990903	FR 1998-2651	19980227
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FR 2775481	B1	20031024		
CA 2321884	A1	19990902	CA 1999-2321884	19990224
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CA 2321884	C	20070206		
AU 9932558	A	19990915	AU 1999-32558	19990224
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BR 9908407	A	20001031	BR 1999-8407	19990224
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EP 1058712	A1	20001213	EP 1999-936084	19990224
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EP 1058712	B1	20080130		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT,				
IE, FI				
TR 2000002472	T2	20010122	TR 2000-2472	19990224
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JP 2002504612	T	20020212	JP 2000-533496	19990224
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TW 518359	B	20030121	TW 1999-88102746	19990224
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10/553,058

CN 1296434	C	20070124	CN 1999-803334	19990224
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AT 385248	T	20080215	AT 1999-936084	19990224
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ES 2303382	T3	20080801	ES 1999-936084	19990224
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MX 2000008197	A	20010328	MX 2000-8197	20000822
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US 6562180	B1	20030513	US 2001-623083	20010413
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PRIORITY APPLN. INFO.:			FR 1998-2651	A 19980227
			<--	
			WO 1999-FR419	W 19990224
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 08 Sep 1999

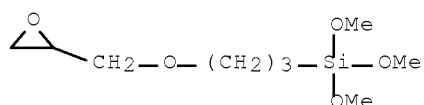
AB A ~~crosslinkable~~ silicone adhesive composition having, before setting, a low viscosity comprises (1) a polysiloxane with ≥ 2 Si-bonded alkenyl groups; (2) a ~~crosslinking~~ polysiloxane with ≥ 3 Si-bonded H atoms; (3) a Pt-group metal catalyst; (4) an adhesion promoter comprising an alkoxysilane containing ≥ 1 C2-6 alkenyl group, a Si-containing epoxide, and a metal Cl-8 alkoxide or chelate; and optionally (5) a filler and/or (6) a ~~crosslinking~~ inhibitor and/or (7) an unsatd. polysiloxane containing Q and/or T groups. The composition has a peel strength ≥ 0.25 N/mm, an initial viscosity ≥ 50 Pa-s at 25°, a tear strength ≥ 6 N/mm (ASTM 624A) and Shore A hardness ≥ 35 . Thus, a premix was formed from 51.7 parts of a polysiloxane comprising Me₃SiO_{0.5} units 21, CH₂:CHSiMe₂O_{0.5} units 0.2, Me₂SiO units 67.8, MeSi(CH:CH₂)O units 3, and SiO₂ units 8 weight%, 15 parts of a CH₂:CHSiMe₂O-terminated polydimethylsiloxane with viscosity 104 mPa-s, and 33.3 parts SiO₂ with average particle size 2 μ m. A 2-component adhesive was prepared from 100 parts component A containing the premix 90.3, HSiMe₂(OSiMe₂)_n(OSiHMe)mOSiHMe₂ with viscosity 25 mPa-s containing 0.7 SiH/100 g 5.6, ethynylcyclohexanol 0.04, CH₂:CHSi(OMe)₃ 1.8, and (3-glycidoxypropyl)trimethoxysilane 1.8 part and 100 parts component B comprising the premix 99.3, Ti(Obu)₄ 0.7, and a Karstedt catalyst 0.004 part. Applied at 50 g/m² between 2 nylon 66 fabrics the adhesive showed peel strength 0.70 N/mm.

IT 2530-83-8, (3-Glycidoxypropyl)trimethoxysilane
59942-04-0

(~~crosslinkable~~ silicone adhesive composition)

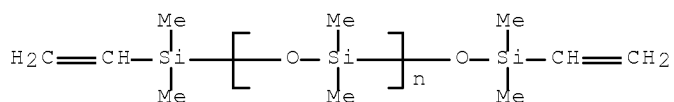
RN 2530-83-8 HCAPLUS

CN Oxirane, 2-[[3-(trimethoxysilyl)propoxy)methyl]- (CA INDEX NAME)



RN 59942-04-0 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -(ethenyldimethylsilyl)- ω -
[(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)



IPCI C08L0083-04 [ICM,6]; C08L0083-00 [ICM,6,C*]
 IPCR C08L0083-07 [I,A]; C08K0005-00 [I,C*]; C08K0005-05 [I,A];
 C08K0005-5415 [I,A]; C08L0083-00 [I,C*]; C08L0083-04 [I,A];
 C08L0083-05 [I,A]; C09J0183-00 [I,C*]; C09J0183-05 [I,A]; C09J0183-07
 [I,A]
 CC 37-3 (Plastics Manufacture and Processing)
 Section cross-reference(s): 38
 ST crosslinkable silicone adhesive; hydrosilylation
 crosslinking siloxane adhesive
 IT Hydrosilylation catalysts
 (Pt complexes; crosslinkable silicone adhesive composition)
 IT Polysiloxanes, preparation
 (crosslinkable silicone adhesive composition)
 IT Epoxy resins, processes
 Phenolic resins, processes
 Polyamides, processes
 Polycarbonates, processes
 Polyesters, processes
 Polyethers, processes
 Polyolefins
 (crosslinkable silicone adhesive composition for bonding of)
 IT Automobiles
 (crosslinkable silicone adhesive composition for use in manufacture
 of)
 IT Polyesters, processes
 (film; crosslinkable silicone adhesive composition for bonding
 of)
 IT Adhesives
 (two-component; crosslinkable silicone adhesive composition)
 IT Electric appliances
 (washing machines; crosslinkable silicone adhesive composition
 for use in manufacture of)
 IT 2530-83-8, (3-Glycidoxypropyl)trimethoxysilane 2768-02-7,
 Vinyltrimethoxysilane 5593-70-4 31900-57-9D, Dimethylsilanediol
 homopolymer, dimethylvinylsilyl-terminated 59942-04-0
 156118-35-3D, Dimethylsilanediol-methylsilanediol copolymer,
 dimethylsilyl-terminated 219924-06-8D,
 Dimethylsilanediol-methylvinylsilanediol-tetrahydroxysilane copolymer,
 trimethylsilyl- and dimethylvinylsilyl-terminated
 (crosslinkable silicone adhesive composition)
 IT 7429-90-5, Aluminum, miscellaneous 12597-69-2, Steel, miscellaneous
 (crosslinkable silicone adhesive composition for bonding of)
 IT 106677-58-1, ABS resin
 (crosslinkable silicone adhesive composition for bonding of)
 IT 7631-86-9, Silica, uses
 (filler; crosslinkable silicone adhesive composition)
 IT 25038-59-9, processes
 (film; crosslinkable silicone adhesive composition for bonding
 of)
 IT 78-27-3, 1-Ethynylcyclohexanol
 (inhibitor; crosslinkable silicone adhesive composition)
 OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS

10/553,058

RECORD (6 CITINGS)
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L48 ANSWER 17 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1999:565215 HCAPLUS Full-text
 DOCUMENT NUMBER: 131:201346
 TITLE: Curable polysiloxane compositions for peelable
 films of release paper
 INVENTOR(S): Manzoji, Takako; Ohkawa, Tadashi; Mikami, Ryuzo
 PATENT ASSIGNEE(S): Dow Corning Toray Silicone Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11240953	A	19990907	JP 1998-60655	19980225
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US 6156437	A	20001205	US 1999-257338	19990225
			<--	
PRIORITY APPLN. INFO.:			JP 1998-60655	A 19980225
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 08 Sep 1999

AB Title compns. comprise (a) vinyl polymers grafted with siloxane chains
 (CO₂)aR₁SiR₂₂(OSiR₂₂)_n(OSiR₃₂)mOSiR₃₃-pYp (R₁ = divalent organic group; R₂ =
 hydrocarbyl containing no aliphatic unsatd. bond; R₃ = hydrocarbyl; Y =
 aliphatic saturated bond-containing monovalent organic group; a = 0-1; m = 0-
 20; n ≥ 1; p = 1-3) and (CO₂)aR₁SiR₂₂(OSiR₃₂)mOSiR₃₃-pYp (R₁-R₃, a, Y, m, p =
 same as above), (b) organic Si compds. having ≥2 SiH groups per mol., and (c)
 hydrosilylation catalysts. Thus, a composition containing 100 parts siloxane
 grafted polyacrylate (prepared by polymerization of Bu acrylate 13,
 methacryloxypropyldimethylsilanol 1, and
 CH₂:CMeCO₂(CH₂)₃SiMe₂O(SiMe₂O)₅SiMe₂OH 6 g and condensation with
 ClSiMe₂CH:CH₂), 7.02 parts Si compds. (HSiMe₂O_{1/2})_{1.82}SiO_{4/2}, and H₂PtCl₆/i-
 PrOH was applied on polyethylene laminated paper and cured to give a film
 showing initial peeling resistance 20 g/38 mm and 25 g/38 mm after 24 h.

IT 227188-04-7DP, reaction products with
 dimethylvinylchlorosilane, H-containing Si compound-crosslinked
 227314-69-4DP, Butyl acrylate-hexamethylcyclotrisiloxane-(3-
 methacryloxypropyl)dimethylsilanol graft copolymer, reaction products
 with dimethylvinylchlorosilane, H-containing Si compound-crosslinked
 (curable siloxane compns. containing siloxane-grafted vinyl polymers
 and organic silicon hardeners for peelable films of release paper)

RN 227188-04-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(hydroxydimethylsilyl)propyl ester,
 polymer with butyl 2-propenoate and
 α-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-
 ω-hydroxypoly[oxy(dimethylsilylene)] (9CI) (CA INDEX NAME)

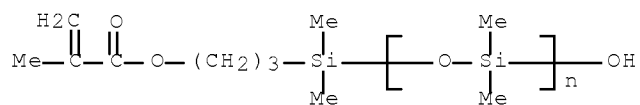
CM 1

CRN 123069-60-3

CMF (C2 H6 O Si)_n C9 H18 O3 Si

10/553,058

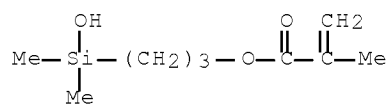
CCI PMS



CM 2

CRN 119052-13-0

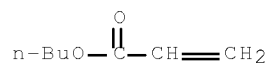
CMF C9 H18 O3 Si



CM 3

CRN 141-32-2

CMF C7 H12 O2



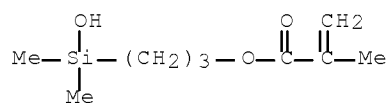
RN 227314-69-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(hydroxydimethylsilyl)propyl ester, polymer with butyl 2-propenoate and hexamethylcyclotrisiloxane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 119052-13-0

CMF C9 H18 O3 Si

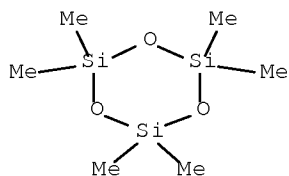


10/553,058

CM 2

CRN 541-05-9

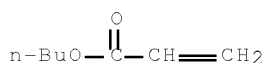
CMF C6 H18 O3 Si3



CM 3

CRN 141-32-2

CMF C7 H12 O2



IT 25084-99-5DP, Hexamethylcyclotrisiloxane homopolymer,
methacryloxypropyldimethylsilyl-terminated 119052-13-0P,
(3-Methacryloxypropyl)dimethylsilanol 123069-60-3P
(curable siloxane compns. containing siloxane-grafted vinyl polymers
and organic silicon hardeners for peelable films of release paper)

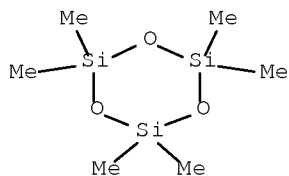
RN 25084-99-5 HCAPLUS

CN Cyclotrisiloxane, 2,2,4,4,6,6-hexamethyl-, homopolymer (CA INDEX
NAME)

CM 1

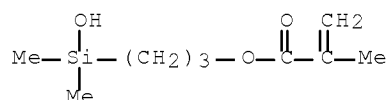
CRN 541-05-9

CMF C6 H18 O3 Si3



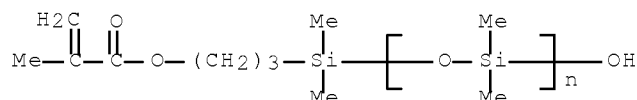
RN 119052-13-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(hydroxydimethylsilyl)propyl ester (CA
INDEX NAME)



RN 123069-60-3 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -[dimethyl[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl]silyl]- ω -hydroxy- (CA INDEX NAME)



IPCI C08G0077-442 [ICM,6]; C08G0077-00 [ICM,6,C*]; C09D0183-10 [ICS,6]
 IPCR C08F0290-00 [I,C*]; C08F0290-06 [I,A]; C08L0083-00 [I,C*]; C08L0083-10 [I,A]
 CC 42-10 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 43
 ST siloxane graft vinyl polymer release paper; org silicon crosslinked siloxane grafted polyacrylate; peelable film polysiloxane release paper
 IT 1719-58-0DP, Dimethylvinylchlorosilane, reaction products with siloxane-grafted polyacrylate, H-containing Si compound-crosslinked 26403-67-8DP, Methylsilanediol homopolymer, sru, trimethylsilyl-terminated, reaction products with siloxane grafted vinyl polymers 49718-23-2DP, Methylsilanediol homopolymer, trimethylsilyl-terminated, reaction products with siloxane grafted vinyl polymers 227188-04-7DP, reaction products with dimethylvinylchlorosilane, H-containing Si compound-crosslinked 227314-69-4DP, Butyl acrylate-hexamethylcyclotrisiloxane-(3-methacryloxypropyl)dimethylsilanol graft copolymer, reaction products with dimethylvinylchlorosilane, H-containing Si compound-crosslinked 241812-21-5DP, reaction products with siloxane grafted vinyl polymers (curable siloxane compns. containing siloxane-grafted vinyl polymers and organic silicon hardeners for peelable films of release paper)
 IT 25084-99-5DP, Hexamethylcyclotrisiloxane homopolymer, methacryloxypropyldimethylsilyl-terminated 119052-13-0P, (3-Methacryloxypropyl)dimethylsilanol 123069-60-3P (curable siloxane compns. containing siloxane-grafted vinyl polymers and organic silicon hardeners for peelable films of release paper)

L48 ANSWER 18 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:253897 HCAPLUS Full-text

DOCUMENT NUMBER: 130:325981

TITLE: Addition reaction type polyorganosiloxane adhesive composition containing specific polyorganohydrogensiloxane

INVENTOR(S): Tamura, Takashi

PATENT ASSIGNEE(S): Toshiba Silicone Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11106734	A	19990420	JP 1997-274488	19971007
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PRIORITY APPLN. INFO.:			JP 1997-274488	19971007
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ED Entered STN: 26 Apr 1999

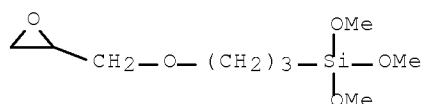
AB The polyorganosiloxane adhesive composition comprises (A) 100 parts of polyorganosiloxane containing alkenyl group, (B) a specific amount of linear or branched polyorganohydrogensiloxane like $\text{MeSiO}(\text{MeHSiO})_p(\text{Me}_2\text{SiO})_q\text{SiMe}_3$ [$p = 3-100$; $q = 0-100$], (C) a specific amount of Pt compound, (D) 0.1-20 parts of specific organic Si compound, and (E) 0.01-5 parts of organic Al compound. The adhesive composition shows excellent adhesion to polycarbonates at $\leq 90^\circ$.

IT 2530-83-8 2530-85-0 71186-42-0

(addition reaction type polyorganosiloxane adhesive composition containing specific polyorganohydrogensiloxane)

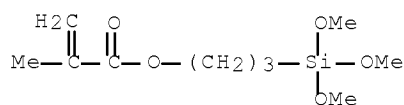
RN 2530-83-8 HCAPLUS

CN Oxirane, 2-[[3-(trimethoxysilyl)propoxy]methyl]- (CA INDEX NAME)



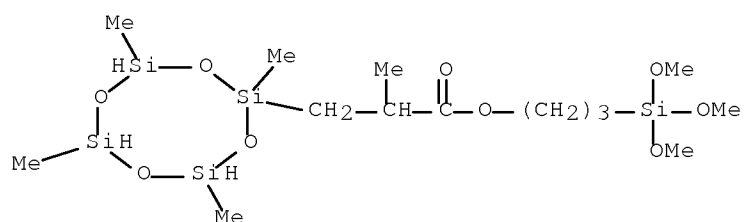
RN 2530-85-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (CA INDEX NAME)

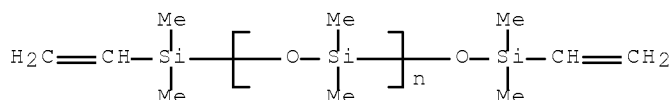


RN 71186-42-0 HCAPLUS

CN Cyclotetrasiloxane-2-propanoic acid, α ,2,4,6,8-pentamethyl-, 3-(trimethoxysilyl)propyl ester (CA INDEX NAME)



IT 59942-04-0, α , ω -Divinylpolydimethylsiloxane
 (addition reaction type polyorganosiloxane adhesive composition containing
 specific polyorganohydrogensiloxane)
 RN 59942-04-0 HCAPLUS
 CN Poly[oxy(dimethylsilylene)], α -(ethenyldimethylsilyl)- ω -
 [(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)



IPCI C09J0183-07 [ICM,6]; C08K0005-54 [ICS,6]; C08L0083-07 [ICS,6];
 C09J0183-07 [ICS,6]; C09J0183-05 [ICS,6]; C08L0083-05 [ICS,6]
 IPCR C08K0005-00 [I,C*]; C08K0005-54 [I,A]; C08L0083-00 [I,C*]; C08L0083-07
 [I,A]; C09J0183-00 [I,C*]; C09J0183-07 [I,A]
 CC 38-3 (Plastics Fabrication and Uses)
 ST addn reaction polyorganosiloxane adhesive compn
 polyorganohydrogensiloxane crosslinking agent
 IT Hydrosilylation catalysts
 (Pt-type; addition reaction type polyorganosiloxane adhesive composition
 containing specific polyorganohydrogensiloxane)
 IT Adhesives
 Crosslinking agents
 (addition reaction type polyorganosiloxane adhesive composition containing
 specific polyorganohydrogensiloxane)
 IT 78-27-3, 1-Ethynyl-1-cyclohexanol 2530-83-8
 2530-85-0 19443-16-4 71186-42-0
 (addition reaction type polyorganosiloxane adhesive composition containing
 specific polyorganohydrogensiloxane)
 IT 31900-57-9D, Dimethylsilanediol homopolymer, vinyl-terminated
 59942-04-0, α , ω -Divinylpolydimethylsiloxane
 (addition reaction type polyorganosiloxane adhesive composition containing
 specific polyorganohydrogensiloxane)

L48 ANSWER 19 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:64858 HCAPLUS Full-text

DOCUMENT NUMBER: 130:126258

TITLE: Silicone compositions for coating substrates in
 supple material, in particular textile

INVENTOR(S): Bohin, Fabrice; Dalbe, Bernard; Dumont, Laurent;
 Heilmann, Jens; Kaiser, Uwe; Pouchelon, Alain;
 Pusineri, Christian; Walz, Joachim

PATENT ASSIGNEE(S): Rhodia Chimie, Fr.

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9902592	A1	19990121	WO 1998-FR1469	19980708
			<--	
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,			
	DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP,			
	KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,			
	MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,			
	TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,			
	ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,			
	CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
FR 2765884	A1	19990115	FR 1997-8976	19970709
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FR 2765884	B1	20010727		
AU 9885455	A	19990208	AU 1998-85455	19980708
			<--	
GB 2342655	A	20000419	GB 1937-7	19980708
			<--	
GB 2342655	B	20010912	GB 2000-377	19980708
			<--	
US 6562737	B1	20030513	US 2000-462378	20000523
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PRIORITY APPLN. INFO.:			FR 1997-8976	A 19970709
			<--	
			WO 1998-FR1469	W 19980708
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 01 Feb 1999

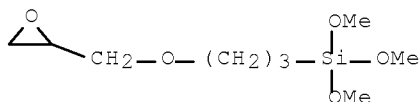
AB The invention concerns a coating composition capable of being cold vulcanized, characterized in that it comprises, in a mixture: (1) ≥ 1 polyorganosiloxane having ≥ 2 C2-6 alkenyl groups bound to Si, (2) ≥ 1 polyorganosiloxane having ≥ 2 H atoms bound to Si, (3) a catalytically effective amount of Pt-type catalysts, (4) an adherence promoter, (5) optionally a reinforcing system which can be a polyorganosiloxane resin and/or a reinforcing filler, (6) optionally ≥ 1 crosslinking inhibitor, and (7) mineral or organic hollow microspheres. Mixing a trimethylsilyl-terminated vinyl siloxane (I) (Me₃SiO_{0.5} 27 mol%, Me₂CH₂:CHSiO 0.15 mol%, Me₂SiO 60 mol%, MeCH₂:CHSiO 2.4 mol% and SiO₂ 9.6 mol%) 48 with a dimethylvinyl-terminated polydimethylsiloxane oil 45, a dimethylhydrogensilyl-terminated poly(di-Me H Me siloxane) oil (II) 5, ethylcyclohexanol (inhibitor) 0.025, vinyltrimethoxysilane (promoter) 1 and 3-glycidoxypropyltrimethoxysilane (promoter) 1 part gave a component A. Sep. mixing the I 45 with II 51, a colorant 0.1, a Karstedt catalyst 0.0215 (as Pt), and vinyltrimethoxysilane in Ti(OBu)₄ 4 parts gave a component B. Mixing the component A 100 with the component B 10, then with 5 parts (per 100 parts A + B) microsphere Expancel 053 DU gave a coating.

IT 2530-83-8, 3-Glycidoxypropyltrimethoxysilane

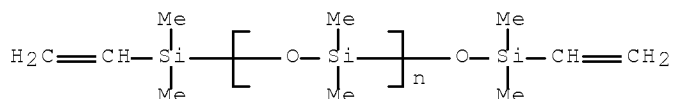
(adherence promoter; silicone compns. for coating substrates in
supple material, in particular textile)

RN 2530-83-8 HCAPLUS

CN Oxirane, 2-[[3-(trimethoxysilyl)propoxy)methyl]- (CA INDEX NAME)



IT 59942-04-0
 (silicone compns. for coating substrates in supple material, in particular textile)
 RN 59942-04-0 HCAPLUS
 CN Poly[oxy(dimethylsilylene)], α -(ethenyldimethylsilyl)- ω -[(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)



IPCI C08K0007-22 [ICM,6]; C08K0007-00 [ICM,6,C*]; C09D0183-04 [ICS,6]
 IPCR C08K0007-00 [I,C*]; C08K0007-22 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]
 CC 40-9 (Textiles and Fibers)
 Section cross-reference(s): 42
 IT Crosslinking catalysts
 (neg.; silicone compns. for coating substrates in supple material, in particular textile)
 IT Coating materials
 Hydrosilylation catalysts
 Microspheres
 Textiles
 (silicone compns. for coating substrates in supple material, in particular textile)
 IT 2530-83-8, 3-Glycidoxypyrpyltrimethoxysilane 5593-70-4,
 Titanium tetrabutoxide
 (adherence promoter; silicone compns. for coating substrates in supple material, in particular textile)
 IT 31900-57-9D, Dimethylsilanediol homopolymer,
 dimethylvinylsilyl-terminated 59942-04-0 219924-06-8D,
 Dimethylsilanediol-methylvinylsilanediol-tetrahydroxysilane copolymer,
 trimethylsilyl- and dimethylvinylsilyl-terminated
 (silicone compns. for coating substrates in supple material, in particular textile)
 OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L48 ANSWER 20 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1998:277540 HCAPLUS Full-text
 DOCUMENT NUMBER: 129:16529
 ORIGINAL REFERENCE NO.: 129:3553a,3556a
 TITLE: Polyether copolymer, and polymer solid electrolyte composition for use in batteries
 INVENTOR(S): Miura, Katsuhito; Yanagida, Masanori; Higobashi, Hiroki; Endo, Takahiro
 PATENT ASSIGNEE(S): Daiso Co., Ltd., Japan; Daisow Co., Ltd.
 SOURCE: Eur. Pat. Appl., 35 pp.
 CODEN: EPXXDW

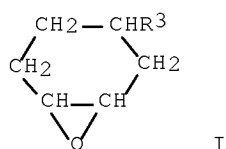
DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 838487	A2	19980429	EP 1997-118729	19971028
			<--	
EP 838487	A3	19980722		
EP 838487	B1	20030618		
			R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO	
JP 10130487	A	19980519	JP 1996-285047	19961028
			<--	
JP 3613908	B2	20050126		
JP 10176105	A	19980630	JP 1996-336783	19961217
			<--	
US 5968681	A	19991019	US 1997-958664	19971028
			<--	
JP 10204172	A	19980804	JP 1997-308562	19971111
			<--	
JP 3282565	B2	20020513		
PRIORITY APPLN. INFO.:			JP 1996-285047	A 19961028
			<--	
			JP 1996-312228	A 19961122
			<--	
			JP 1996-336783	A 19961217
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 14 May 1998

GI



- AB A polyether prepared from 5-95 mol% QO(CHMeCH₂O)_nR₁ (R = C₁-12-alkyl, alkenyl of 2-8 C atoms, cycloalkyl, aryl, aralkyl, and tetrahydropyranyl; n = 1-12; Q = glycidyl), 5-95 mol% oxirane, and 0-15 mol% R₂J (J = oxiranyl; R₂ = substituent having ethylenically unsatd. group, or one having reactive Si or halogen group, having epoxy group at the terminal end) or I (R₃ = R₂) as a crosslinking component has a weight-average mol. weight (M_w) 103-107 and is blended with plasticizer and an electrolyte salt. The copolymer provides a polymer solid electrolyte superior in ionic conductivity and also superior in processability, moldability, mech. strength and flexibility. Thus, the copolymer (83:17) of ethylene oxide and dipropylene glycol glycidyl Me ether having a weight-average mol. weight 2,400,000 and conductivity (35°) 4.6 + 10⁻⁵ S/cm was mixed with acetonitrile solution of Li bistrifluoromethane sulfonylimide, cast as a film, and dried, and placed between a foil and Li cobaltate plate to form a secondary battery electrode.
- IT 206543-69-3DP, lithium complexes 206667-48-3DP,
 lithium complexes 206667-49-4DP, lithium complexes

10/553,058

206667-56-3DP, lithium complexes

(polyether complex composition for use in batteries)

RN 206543-69-3 HCAPLUS

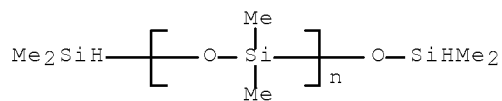
CN Poly[oxy(dimethylsilylene)], α -(dimethylsilyl)- ω -
[(dimethylsilyl)oxy]-, polymer with
[[methyl-2-(2-propenyloxy)ethoxy]methyl]oxirane, oxirane and
[(2-propenyloxy)methyl]oxirane, block (9CI) (CA INDEX NAME)

CM 1

CRN 115254-29-0

CMF (C2 H6 O Si)_n C4 H14 O Si2

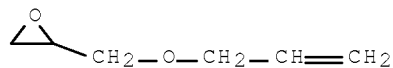
CCI PMS



CM 2

CRN 106-92-3

CMF C6 H10 O2



CM 3

CRN 75-21-8

CMF C2 H4 O



CM 4

CRN 206543-68-2

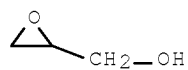
CMF C9 H16 O3

CCI IDS

CM 5

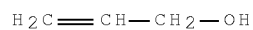
10/553,058

CRN 556-52-5
CMF C3 H6 O2



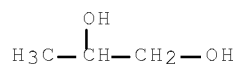
CM 6

CRN 107-18-6
CMF C3 H6 O



CM 7

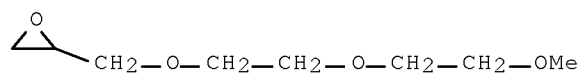
CRN 57-55-6
CMF C3 H8 O2



RN 206667-48-3 HCAPLUS
CN Silane, dimethoxymethyl[3-(oxiranylmethoxy)propyl]-, polymer with
[[2-(2-methoxymethylethoxy)methylethoxy)methyl]oxirane and oxirane
(9CI) (CA INDEX NAME)

CM 1

CRN 206543-22-8
CMF C10 H20 O4
CCI IDS

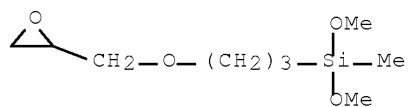


2 (D1-Me)

CM 2

10/553,058

CRN 65799-47-5
CMF C9 H20 O4 Si



CM 3

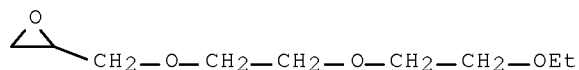
CRN 75-21-8
CMF C2 H4 O



RN 206667-49-4 HCAPLUS
CN Silane, trimethoxy[3-(oxiranylmethoxy)propyl]-, polymer with
[[2-(2-ethoxymethylethoxy)methylethoxy)methyl]oxirane and oxirane
(9CI) (CA INDEX NAME)

CM 1

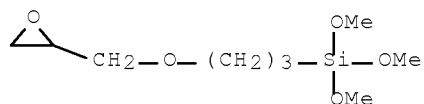
CRN 206543-18-2
CMF C11 H22 O4
CCI IDS



2 (D1-Me)

CM 2

CRN 2530-83-8
CMF C9 H20 O5 Si



CM 3

CRN 75-21-8

CMF C2 H4 O



RN 206667-56-3 HCAPLUS

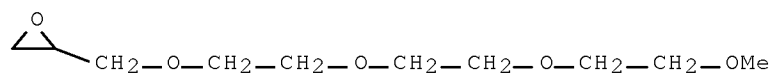
CN Silane, trimethoxy[3-(oxiranylmethoxy)propyl]-, polymer with oxirane and (trimethyl-2,5,8,11-tetraoxadodec-1-yl)oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 163148-54-7

CMF C13 H26 O5

CCI IDS

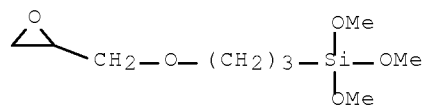


3 (D1-Me)

CM 2

CRN 2530-83-8

CMF C9 H20 O5 Si



CM 3

CRN 75-21-8

CMF C2 H4 O



IPCI C08G0065-08 [ICM,6]; C08G0065-14 [ICS,6]; C08G0065-00 [ICS,6,C*];
 C08K0003-00 [ICS,6]; H01M0006-18 [ICS,6]; H01B0001-12 [ICS,6]
 IPCR C08G0065-00 [I,C*]; C08G0065-14 [I,A]; C08G0065-22 [I,A]; C08L0071-00
 [I,C*]; C08L0071-02 [I,A]; H01B0001-12 [I,C*]; H01B0001-12 [I,A];
 H01M0006-18 [I,C*]; H01M0006-18 [I,A]
 CC 35-7 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 72
 ST solid electrolyte polyether battery secondary; salt polyether solid
 electrolyte; plasticizer polyether solid electrolyte; solvent
 plasticizer polyether; polyoxyalkylene salt plasticizer polyether;
 crosslinked polyether solid electrolyte
 IT 206543-19-3DP, lithium complexes 206543-23-9DP, lithium complexes
 206543-69-3DP, lithium complexes 206667-42-7DP, Dipropylene
 glycol glycidyl allyl ether-ethylene oxide copolymer, lithium
 complexes 206667-43-8DP, lithium complexes 206667-44-9DP, lithium
 complexes 206667-45-0DP, lithium complexes 206667-46-1DP, lithium
 complexes 206667-47-2DP, lithium complexes 206667-48-3DP
 , lithium complexes 206667-49-4DP, lithium complexes
 206667-50-7DP, lithium complexes 206667-51-8DP, lithium complexes
 206667-52-9DP, lithium complexes 206667-53-0DP, lithium complexes
 206667-54-1DP, lithium complexes 206667-55-2DP, lithium complexes
 206667-56-3DP, lithium complexes 207301-79-9DP, lithium
 complexes
 (polyether complex composition for use in batteries)
 OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS
 RECORD (35 CITINGS)

L48 ANSWER 21 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1997:678699 HCAPLUS Full-text
 DOCUMENT NUMBER: 127:294733
 ORIGINAL REFERENCE NO.: 127:57591a,57594a
 TITLE: Coating materials preventing scattering of chips
 of glass and ceramics
 INVENTOR(S): Nagatani, Toshikazu; Yoshii, Atsushi; Tsurumoto,
 Osamu
 PATENT ASSIGNEE(S): Kansai Paint Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 09268261	A	19971014	JP 1996-79183	19960401
			<--	
PRIORITY APPLN. INFO.:			JP 1996-79183	19960401
			<--	

ED Entered STN: 25 Oct 1997

AB Coating materials contain polysiloxanes having ≥ 2 vinyl groups/mol., H
 polysiloxanes having ≥ 2 SiH linkages, catalysts of Group 8 metals, and silane
 coupling agents. Thus, a coating contained vinyl dimethylsiloxane-terminated

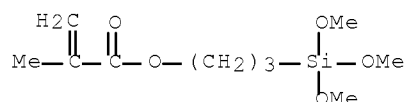
10/553,058

polydimethylpolysiloxane, $\text{Me}_3\text{SiO}(\text{Me}_2\text{SiO})_3(\text{MeHSiO})_5\text{SiMe}_3$ at vinyl group-SiH group equiv ratio 1:1.5, a Pt alcoholate, 10 parts γ -methacryloxypropyltrimethoxysilane/100 parts polysiloxane mixts., and heptane.

IT 2530-85-ODP, reaction products with hydrogen polysiloxanes
and vinyltrimethylpolysiloxanes 14513-34-9DP,
γ-Methacryloxypropyldimethoxymethylsilane, reaction products
with hydrogen polysiloxanes and vinyltrimethylpolysiloxanes
59942-04-ODP, Dimethylsilanediol homopolymer, SRU,
dimethylvinylsilyl-terminated, reaction products with hydrogen
polysiloxanes and coupling agents
(coating materials containing vinyltrimethylpolysiloxane and hydrogen
polysiloxanes and catalysts and silane coupling agents for
preventing scattering of chips of glass and ceramics)

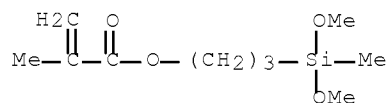
RN	2530-85-0	HCAPLUS
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CN	2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester (CA INDEX NAME)
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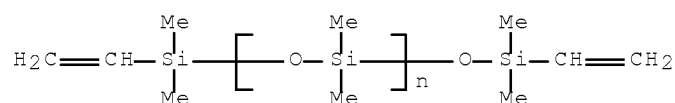
RN 14513-34-9 HCAPLUS

CN	2-Propenoic acid, 2-methyl-, 3-(dimethoxymethylsilyl)propyl ester (CA INDEX NAME)
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RN 59942-04-0 HCAPLUS

CN Poly[oxy(dimethylsilylene)], α -(ethenyldimethylsilyl)- ω -
 [(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)



IPCI C09D0005-00 [ICM,6]; C09D0183-05 [ICS,6]; C09D0183-07 [ICS,6]

IPCR C09D0005-00 [I,C*]; C09D0005-00 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]; C09D0183-05 [I,C*]; C09D0183-05 [I,A]; C09D0183-07 [I,C*]; C09D0183-07 [I,A]

CC 42-10 (Coatings, Inks, and Related Products)

Section cross-reference(s): 57

IT Crosslinking catalysts
 Hydrosilylation catalysts
 (platinum alcoholates; coating materials containing
 vinyltrimethylpolysiloxane and hydrogen polysiloxanes and catalysts
 and silane coupling agents for preventing scattering of chips of
 glass and ceramics)

IT 2530-85-0DP, reaction products with hydrogen polysiloxanes
 and vinyltrimethylpolysiloxanes 2768-02-7DP, Vinyltrimethoxysilane,
 reaction products with hydrogen polysiloxanes and
 vinyltrimethylpolysiloxanes 14513-34-9DP,
 γ -Methacryloxypropyltrimethoxymethylsilane, reaction products
 with hydrogen polysiloxanes and vinyltrimethylpolysiloxanes
 31900-57-9DP, Dimethylsilanediol homopolymer,
 dimethylvinylsilyl-terminated, reaction products with hydrogen
 polysiloxanes and coupling agents 59942-04-0DP,
 Dimethylsilanediol homopolymer, SRU, dimethylvinylsilyl-terminated,
 reaction products with hydrogen polysiloxanes and coupling agents
 (coating materials containing vinyltrimethylpolysiloxane and hydrogen
 polysiloxanes and catalysts and silane coupling agents for
 preventing scattering of chips of glass and ceramics)

L48 ANSWER 22 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1996:694155 HCAPLUS Full-text

DOCUMENT NUMBER: 125:303352

ORIGINAL REFERENCE NO.: 125:56743a,56746a

TITLE: Silicon- and nitrogen-containing adhesion
 promoters and siloxane compositions containing
 them

INVENTOR(S): Stein, Judith; Wengrovius, Jeffery Hayward;
 Willey, Paul Rodman

PATENT ASSIGNEE(S): General Electric Company, USA

SOURCE: Brit. UK Pat. Appl., 20 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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GB 2298204	A	19960828	GB 1996-3533	19960220
			<--	
GB 2298204	B	19990224		
US 5567752	A	19961022	US 1995-562276	19951122
			<--	
PRIORITY APPLN. INFO.:			US 1995-395129	A 19950227
			<--	
			US 1995-562276	A 19951122
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

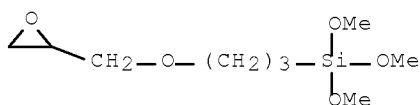
OTHER SOURCE(S): MARPAT 125:303352

ED Entered STN: 25 Nov 1996

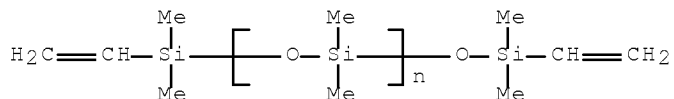
AB Si- and N-containing compns. prepared by the reaction of an aminoalkylsilane,
 such as 3-aminopropyl- or 3-methylaminopropyltrimethoxysilane, with a
 glycidoxyalkylsilane, such as 3-glycidoxypropyltrimethoxysilane, are useful as
 adhesion promoters in addition curable polyorganosiloxane compns. containing
 mixts. of vinyl-substituted polyorganosiloxanes and hydride
 polyorganosiloxanes, also containing ≥ 1 Pt group metal compound as a
 hydrosilylation catalyst. A coating containing mostly vinyl-terminated
 polydimethylsiloxane, filler, crosslinker, catalyst, inhibitor, and the

reaction product of 3-aminopropyltrimethoxysilane and 3-glycidoxypropyltrimethoxysilane was applied to steel, Al, and polycarbonate; showing lap shear strength 19.0, 21.1, and 18.6 kg/cm², resp.

IT 2530-83-8D, 3-Glycidoxypropyltrimethoxysilane, reaction product with aminoalkylsilane
(Si- and N-containing adhesion promoters for siloxane coating compns. bonded to metal or plastic)
RN 2530-83-8 HCAPLUS
CN Oxirane, 2-[[3-(trimethoxysilyl)propoxy)methyl]- (CA INDEX NAME)



IT 59942-04-0
(Si- and N-containing adhesion promoters for siloxane coating compns. bonded to metal or plastic)
RN 59942-04-0 HCAPLUS
CN Poly[oxy(dimethylsilylene)], α -(ethenyldimethylsilyl)- ω -[(ethenyldimethylsilyl)oxy]- (CA INDEX NAME)



IPCI C07F0007-18 [ICM,6]; C07F0007-00 [ICM,6,C*]; C08L0083-04 [ICS,6]; C08L0083-00 [ICS,6,C*]
IPCR C08L0083-06 [I,A]; C07F0007-00 [I,C*]; C07F0007-18 [I,A]; C08K0005-00 [I,C*]; C08K0005-544 [I,A]; C08L0083-00 [I,C*]; C08L0083-04 [I,A]; C08L0083-05 [I,A]; C08L0083-07 [I,A]; C08L0083-08 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]; C09D0183-06 [I,C*]; C09D0183-06 [I,A]; C09D0183-08 [I,C*]; C09D0183-08 [I,A]; C09J0183-00 [I,C*]; C09J0183-05 [I,A]; H05K0003-28 [N,C*]; H05K0003-28 [N,A]
CC 42-5 (Coatings, Inks, and Related Products)
IT 2530-83-8D, 3-Glycidoxypropyltrimethoxysilane, reaction product with aminoalkylsilane 3069-25-8D, 3-Methylaminopropyltrimethoxysilane, reaction product with glycidoxypropyltrimethoxysilane 13822-56-5D, 3-Aminopropyltrimethoxysilane, reaction product with glycidoxypropyltrimethoxysilane
(Si- and N-containing adhesion promoters for siloxane coating compns. bonded to metal or plastic)
IT 31900-57-9D, Dimethylsilanediol homopolymer, vinyl-terminated
59942-04-0
(Si- and N-containing adhesion promoters for siloxane coating compns. bonded to metal or plastic)

DOCUMENT NUMBER: 125:276872
 ORIGINAL REFERENCE NO.: 125:51807a,51810a
 TITLE: Epoxy functional siloxane monomers for high release printable film manufacture
 INVENTOR(S): Okawa, Tadashi
 PATENT ASSIGNEE(S): Dow Corning Toray Silicone Company, Limited, Japan
 SOURCE: Eur. Pat. Appl., 12 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 733637	A1	19960925	EP 1996-301973	19960321
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R: BE, DE, FR, GB, NL				
JP 08259574	A	19961008	JP 1995-90190	19950322
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US 5614640	A	19970325	US 1996-620697	19960321
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PRIORITY APPLN. INFO.:			JP 1995-90190	A 19950322
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 08 Nov 1996

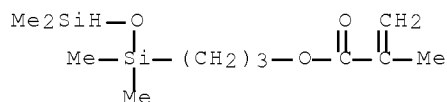
AB Alicyclic epoxy-functional siloxane monomers are prepared having the formula $X(A)_mSiR_n(OSi(R)2R1Y)3-n$ where X = (meth)acryloxyl or vinylphenyl, Y = alicyclic epoxy; R is independently selected from monovalent hydrocarbon groups free of aliphatic unsatn.; R1 is a divalent $C_{\geq 2}$ hydrocarbon group; A is selected from R1 or R2OR2 wherein R2 is a divalent hydrocarbon group; m has an average value of 0-1; and n has an average value of 0-2. The epoxy functional siloxanes of this invention can be added to photocurable compns. which when exposed to UV radiation will yield a highly releasing, very printable/writable, and highly water-repellent cured film. Thus, 1-(epoxycyclohexylethyl)-3-methacryloyloxypropyltetramethyldisiloxane was prepared, graft polymerized with Bu acrylate and polydimethylsiloxane methacrylate macromonomer, and cured to give a highly releasing, very writable film.

IT 96474-12-3P

(intermediate; manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)

RN 96474-12-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(1,1,3,3-tetramethyldisiloxanyl)propyl ester (CA INDEX NAME)

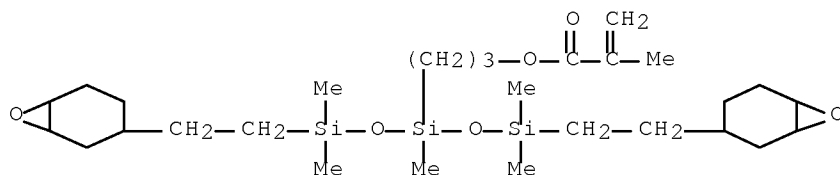


IT 182866-27-9P 182866-33-7P 182866-35-9P
 182866-38-2P 182866-40-6P

(manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)

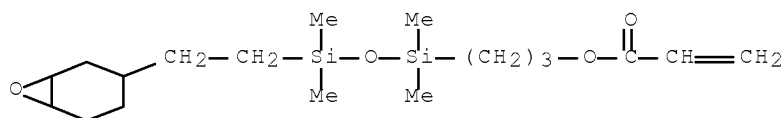
RN 182866-27-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-[1-[[dimethyl[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]silyl]oxy]-1,3,3-trimethyl-3-[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]-1-disiloxanyl]propyl ester (CA INDEX NAME)



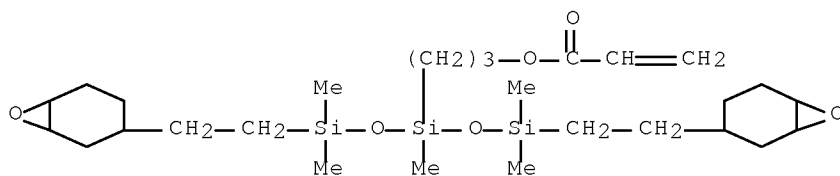
RN 182866-33-7 HCAPLUS

CN 2-Propenoic acid, 3-[1,1,3,3-tetramethyl-3-[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]-1-disiloxanyl]propyl ester (CA INDEX NAME)



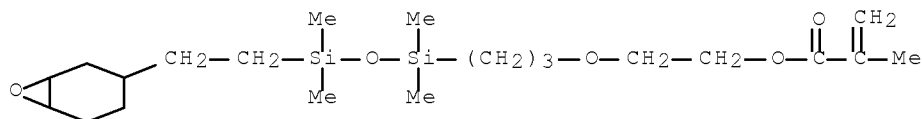
RN 182866-35-9 HCAPLUS

CN 2-Propenoic acid, 3-[1-[[dimethyl[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]silyl]oxy]-1,3,3-trimethyl-3-[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]-1-disiloxanyl]propyl ester (CA INDEX NAME)



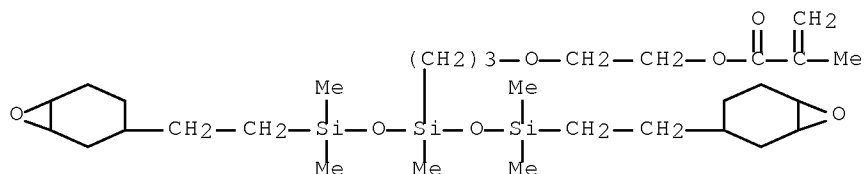
RN 182866-38-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-[1,1,3,3-tetramethyl-3-[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]-1-disiloxanyl]propoxy]ethyl ester (CA INDEX NAME)



RN 182866-40-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[3-[1-[[dimethyl[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]silyl]oxy]-1,3,3-trimethyl-3-[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]-1-disiloxanyl]propoxy]ethyl ester
(CA INDEX NAME)



IT 182866-50-8DP, trimethylsilyl ethers 182866-52-0P
(manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)

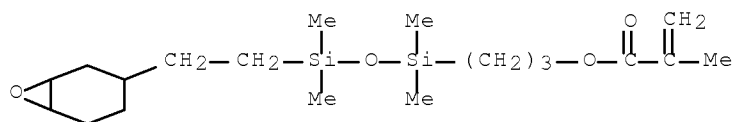
RN 182866-50-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-[1,1,3,3-tetramethyl-3-[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]disiloxanyl]propyl ester, polymer with butyl 2-propenoate and dimethylsilanediol, graft (9CI) (CA INDEX NAME)

CM 1

CRN 182296-45-3

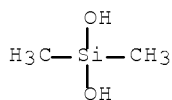
CMF C19 H36 O4 Si2



CM 2

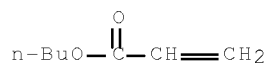
CRN 1066-42-8

CMF C2 H8 O2 Si



CM 3

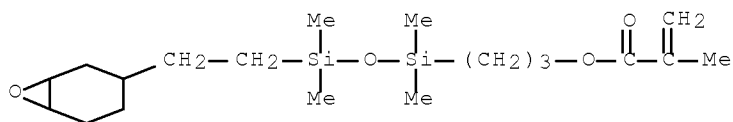
CRN 141-32-2
CMF C7 H12 O2



RN 182866-52-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 3-[1,1,3,3-tetramethyl-3-[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]disiloxanyl]propyl ester, polymer with butyl 2-propenoate and α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]- ω -[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], graft (9CI) (CA INDEX NAME)

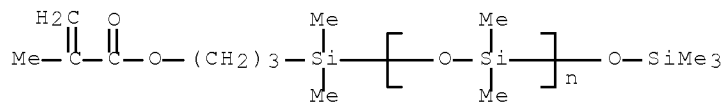
CM 1

CRN 182296-45-3
CMF C19 H36 O4 Si2



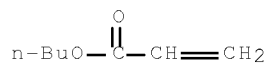
CM 2

CRN 123109-42-2
CMF (C2 H6 O Si)_n C12 H26 O3 Si2
CCI PMS

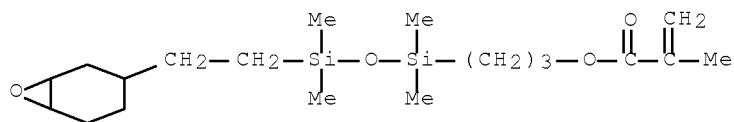


CM 3

CRN 141-32-2
CMF C7 H12 O2

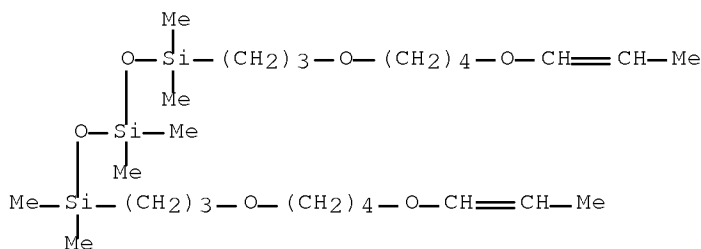


IT 182296-45-3P
 (manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)
 RN 182296-45-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 3-[1,1,3,3-tetramethyl-3-[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]-1-disiloxanyl]propyl ester (CA INDEX NAME)

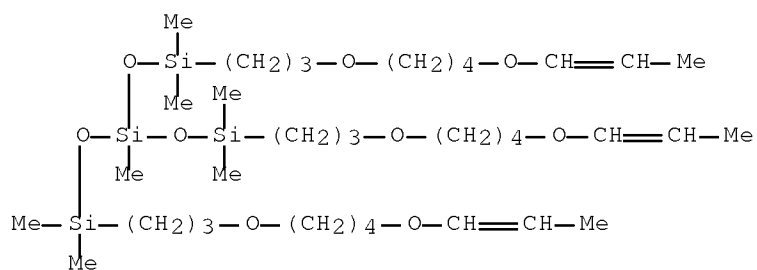


IPCI C07F0007-08 [ICM,6]; C07F0007-00 [ICM,6,C*]
 IPCR B01J0027-06 [I,C*]; B01J0027-13 [I,A]; B01J0031-16 [I,C*]; B01J0031-22 [I,A]; C07B0061-00 [I,C*]; C07B0061-00 [I,A]; C07F0007-00 [I,C*]; C07F0007-08 [I,A]; C08G0059-00 [I,C*]; C08G0059-20 [I,A]; C08G0059-32 [I,A]; C08G0077-00 [I,C*]; C08G0077-14 [I,A]; C08G0077-22 [I,A]
 CC 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 29, 37, 38
 IT Hydrosilylation catalysts
 (in manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)
 IT Crosslinking
 (photochem., manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)
 IT 7440-06-4D, Platinum, complexes
 (hydrosilylation catalyst; in manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)
 IT 16941-12-1, Chloroplatinic acid
 (hydrosilylation catalyst; manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)
 IT 96474-12-3P
 (intermediate; manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)
 IT 182866-27-9P 182866-30-4P 182866-33-7P
 182866-35-9P 182866-36-0P 182866-38-2P
 182866-40-6P 182866-42-8P 182866-44-0P 182866-46-2P
 182866-47-3P
 (manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)
 IT 182866-50-8DP, trimethylsilyl ethers 182866-52-0P
 (manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)
 IT 182296-45-3P
 (manufacture of epoxy functional siloxane monomers for potential use in high release, printable film manufacture)
 OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

ACCESSION NUMBER: 1996:207009 HCAPLUS Full-text
 DOCUMENT NUMBER: 124:261789
 ORIGINAL REFERENCE NO.: 124:48533a,48536a
 TITLE: Synthesis and electron-beam polymerization of
 1-propenyl ether functional siloxanes
 AUTHOR(S): Crivello, James V.; Yang, Bo; Kim, Whan-Gi
 CORPORATE SOURCE: Dep. Chem., Rensselaer Polytechnic Inst., Troy,
 NY, 12180-3590, USA
 SOURCE: Journal of Macromolecular Science, Pure and
 Applied Chemistry (1996), A33(4),
 399-415
 CODEN: JSPCE6; ISSN: 1060-1325
 PUBLISHER: Dekker
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 ED Entered STN: 11 Apr 1996
 AB The preparation of 1-propenyl ether functionalized siloxanes was achieved by
 controlled, Rh-catalyzed, chemoselective hydrosilation of 1-(allyloxy)-4-(1-
 propenyloxy)butane (APB) with various H-functional siloxanes. The
 hydrosilation proceeds exclusively at the allyl ether group of the APB without
 participation at the 1-propenyl ether group. The electron beam-induced
 cationic polymerization of the monomers in the presence of a diaryliodonium
 salt is rapid at very low radiation doses.
 IT 170124-92-2P, 1,1,3,3,5,5-Hexamethyl-1,5-bis[3-[4-(1-
 propenyloxy)butoxy]propyl]trisiloxane 170124-93-3P,
 Tris[dimethyl[3-[4-(1-propenyloxy)butoxy]propyl]siloxy]methylsilane
 170124-94-4P, Tetrakis[dimethyl[3-[4-(1-
 propenyloxy)butoxy]propyl]siloxy]silane 170124-95-5P,
 1,3,5,7-Tetramethyl-1,3,5,7-tetrakis[3-[4-(1-
 propenyloxy)butoxy]propyl]cyclotetrasiloxane
 (preparation and polymerization of)
 RN 170124-92-2 HCAPLUS
 CN 4,9,14,16,21,26-Hexaoxa-13,15,17-trisilanonacosa-2,27-diene,
 13,13,15,15,17,17-hexamethyl- (CA INDEX NAME)



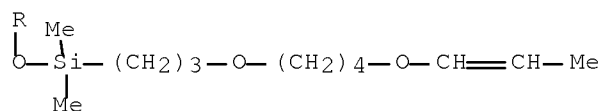
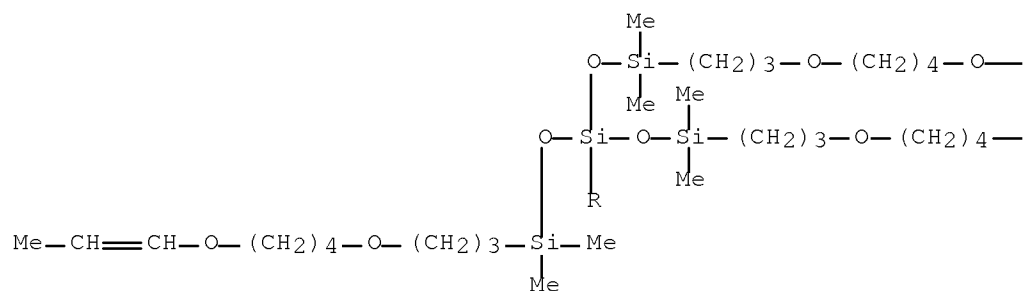
RN 170124-93-3 HCAPLUS
 CN 4,9,14,16,21,26-Hexaoxa-13,15,17-trisilanonacosa-2,27-diene,
 15-[[dimethyl[3-[4-(1-propen-1-yloxy)butoxy]propyl]silyl]oxy]-
 13,13,15,17,17-pentamethyl- (CA INDEX NAME)



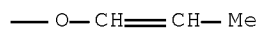
RN 170124-94-4 HCAPLUS

CN 4,9,14,16,21,26-Hexaoxa-13,15,17-trisilanonacosa-2,27-diene,
 15,15-bis[[dimethyl[3-[4-(1-propen-1-yloxy)butoxy]propyl]silyl]oxy]-
 13,13,17,17-tetramethyl- (CA INDEX NAME)

PAGE 1-A

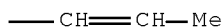
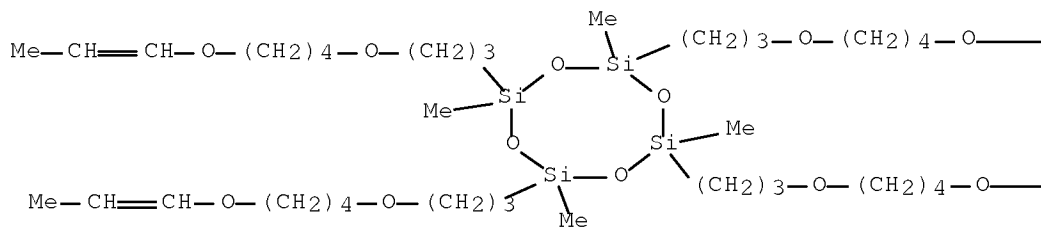


PAGE 1-B

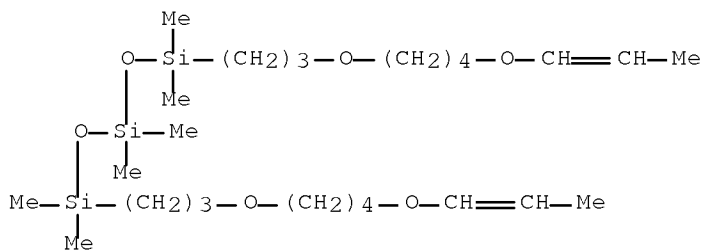


RN 170124-95-5 HCAPLUS

CN Cyclotetrasiloxane, 2,4,6,8-tetramethyl-2,4,6,8-tetrakis[3-[4-(1-propen-1-yloxy)butoxy]propyl]- (CA INDEX NAME)



- IT 170124-98-8P, 1,1,3,3,5,5-Hexamethyl-1,5-bis[3-[4-(1-propenyloxy)butoxy]propyl]trisiloxane homopolymer
 170124-99-9P, Tris[dimethyl[3-[4-(1-propenyloxy)butoxy]propyl]siloxyl]methylsilane homopolymer
 170125-00-5P, Tetrakis[dimethyl[3-[4-(1-propenyloxy)butoxy]propyl]siloxyl]silane homopolymer
 170125-01-6P, 1,3,5,7-Tetramethyl-1,3,5,7-tetrakis[3-[4-(1-propenyloxy)butoxy]propyl]cyclotetrasiloxane homopolymer (preparation by electron beam polymerization)
- RN 170124-98-8 HCAPLUS
- CN 4,9,14,16,21,26-Hexaoxa-13,15,17-trisilanonacosa-2,27-diene, 13,13,15,15,17,17-hexamethyl-, homopolymer (9CI) (CA INDEX NAME)
- CM 1
- CRN 170124-92-2
- CMF C26 H56 O6 Si3



- RN 170124-99-9 HCAPLUS
- CN 4,9,14,16,21,26-Hexaoxa-13,15,17-trisilanonacosa-2,27-diene,

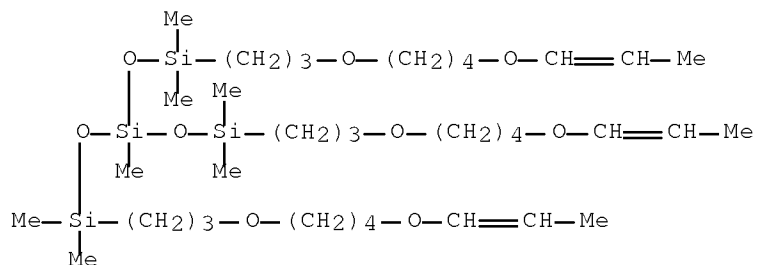
10/553,058

15-[[dimethyl[3-[4-(2-propenyloxy)butoxy]propyl]silyl]oxy]-
13,13,15,17,17-pentamethyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 170124-93-3

CMF C37 H78 O9 Si4



RN 170125-00-5 HCAPLUS

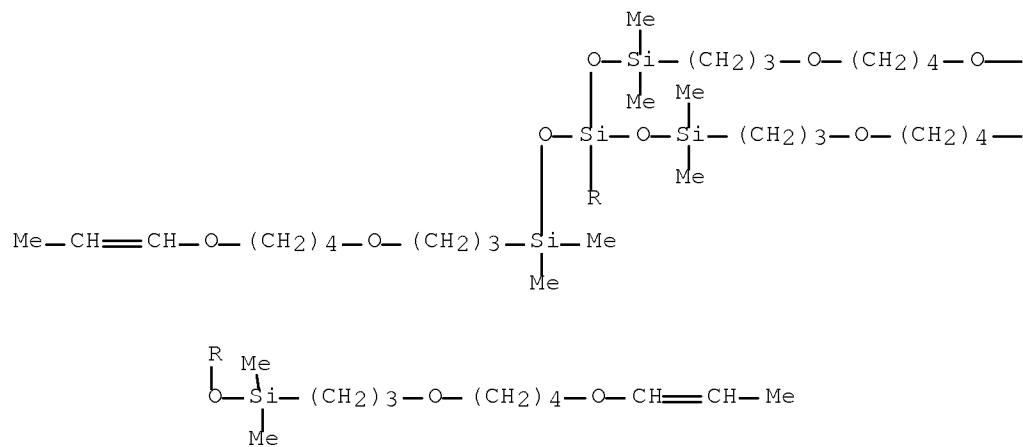
CN 4,9,14,16,21,26-Hexaoxa-13,15,17-trisilanonacosa-2,27-diene,
15,15-bis[[dimethyl[3-[4-(2-propenyloxy)butoxy]propyl]silyl]oxy]-
13,13,17,17-tetramethyl-, homopolymer (9CI) (CA INDEX NAME)

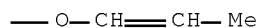
CM 1

CRN 170124-94-4

CMF C48 H100 O12 Si5

PAGE 1-A





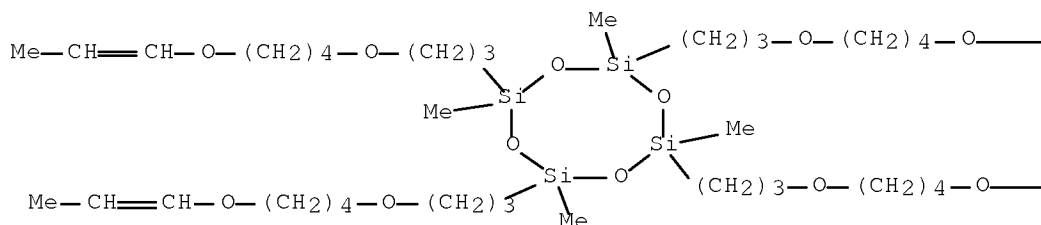
RN 170125-01-6 HCAPLUS

CN Cyclotetrasiloxane, 2,4,6,8-tetramethyl-2,4,6,8-tetrakis[3-[4-(1-propenyloxy)butoxy]propyl]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 170124-95-5

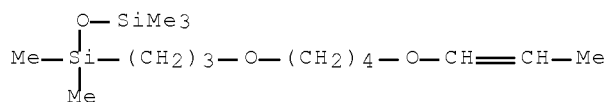
CMF C44 H88 O12 Si4



IT 170124-90-0P, 1,1,1,3,3-Pentamethyl-3-[3-[4-(1-propenyloxy)butoxy]propyl]disiloxane 170124-91-1P,
1,1,3,3-Tetramethyl-1,3-bis[3-[4-(1-propenyloxy)butoxy]propyl]disiloxane
(preparation of)

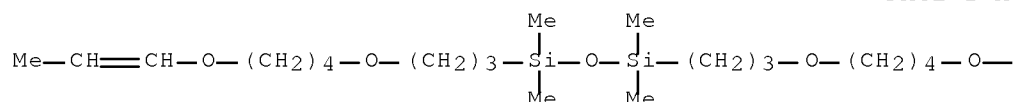
RN 170124-90-0 HCAPLUS

CN Disiloxane, 1,1,1,3,3-pentamethyl-3-[3-[4-(1-propen-1-yloxy)butoxy]propyl]- (CA INDEX NAME)



RN 170124-91-1 HCAPLUS
 CN 4,9,14,19,24-Pentaoxa-13,15-disilaheptacos-2,25-diene,
 13,13,15,15-tetramethyl- (CA INDEX NAME)

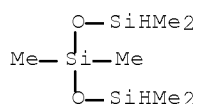
PAGE 1-A



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IT 1189-93-1, 1,1,3,3,5,5-Hexamethyltrisiloxane
 (starting material; in preparation of siloxane propenyloxy derivs.)
 RN 1189-93-1 HCAPLUS
 CN Trisiloxane, 1,1,3,3,5,5-hexamethyl- (CA INDEX NAME)



CC 35-2 (Chemistry of Synthetic High Polymers)
 IT Hydrosilylation catalysts
 (chlorotris(triphenylphosphine)rhodium for hydrosilylation of
 (allyloxy) (propenyloxy)butane)
 IT Crosslinking
 (of [(propenyloxy)butoxy]propyl polysiloxanes)
 IT 156118-35-3DP, Dimethylsilanediol-methylsilanediol copolymer, reaction
 products with 1-(allyloxy)-4-(1-propenyloxy)butane 170124-89-7DP,
 reaction products with dimethylsilanediol-methylsilanediol copolymer
 (preparation and crosslinking of)
 IT 170124-92-2P, 1,1,3,3,5,5-Hexamethyl-1,5-bis[3-[4-(1-
 propenyloxy)butoxy]propyl]trisiloxane 170124-93-3P,
 Tris[dimethyl[3-[4-(1-propenyloxy)butoxy]propyl]siloxymethylsilane
 170124-94-4P, Tetrakis[dimethyl[3-[4-(1-
 propenyloxy)butoxy]propyl]siloxysilane 170124-95-5P,

1,3,5,7-Tetramethyl-1,3,5,7-tetrakis[3-[4-(1-propenyloxy)butoxy]propyl]cyclotetrasiloxane
(preparation and polymerization of)

IT 170124-98-8P, 1,1,3,3,5,5-Hexamethyl-1,5-bis[3-[4-(1-propenyloxy)butoxy]propyl]trisiloxane homopolymer
170124-99-9P, Tris[dimethyl[3-[4-(1-propenyloxy)butoxy]propyl]siloxyl]methyldisilane homopolymer
170125-00-5P, Tetrakis[dimethyl[3-[4-(1-propenyloxy)butoxy]propyl]siloxyl]silane homopolymer
170125-01-6P, 1,3,5,7-Tetramethyl-1,3,5,7-tetrakis[3-[4-(1-propenyloxy)butoxy]propyl]cyclotetrasiloxane homopolymer
(preparation by electron beam polymerization)

IT 170124-90-0P, 1,1,1,3,3-Pentamethyl-3-[3-[4-(1-propenyloxy)butoxy]propyl]disiloxane 170124-91-1P,
1,1,3,3-Tetramethyl-1,3-bis[3-[4-(1-propenyloxy)butoxy]propyl]disiloxane
(preparation of)

IT 106-95-6, Allyl bromide, reactions 110-63-4, 1,4-Butanediol,
reactions 1189-93-1, 1,1,3,3,5,5-Hexamethyltrisiloxane
2370-88-9, 1,3,5,7-Tetramethylcyclotetrasiloxane
(starting material; in preparation of siloxane propenyloxy derivs.)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS
RECORD (5 CITINGS)

L48 ANSWER 25 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:907615 HCAPLUS Full-text
DOCUMENT NUMBER: 123:287200
ORIGINAL REFERENCE NO.: 123:51473a,51476a
TITLE: Fluorine-containing curable release coating
composition
INVENTOR(S): Kobayashi, Hideki
PATENT ASSIGNEE(S): Dow Corning Toray Silicone Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
EP 655471	A1	19950531	EP 1994-118247	19941119
			<--	
EP 655471	B1	19970212		
R: DE, FR, GB, NL				
JP 07150044	A	19950613	JP 1993-321025	19931125
			<--	
US 5486421	A	19960123	US 1994-338914	19941114
			<--	
PRIORITY APPLN. INFO.:			JP 1993-321025	A 19931125
			<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 10 Nov 1995

AB A polymer composition which can cure rapidly to provide a release coating that has a low surface tension comprises (A) F-containing polymer that contains ≥ 2 alkenyl groups in each mol., obtained by the copolymn. of (a) acrylic monomer CH₂:CXCO₂R₁ (X = H, Me; R₁ = C₄-15 hydrocarbyl containing ≥ 1 CF₂ group), and (b) a silicone macromonomer CH₂:CXCO₂Z(RMe₂SiO)_nMe₂SiR₂ (X as above; Z = C₁-8 hydrocarbylene; R = Me, C₃-8 F-containing hydrocarbyl; R₂ = C₂-6 alkenyl; n

≥1), (B) an organohydrogenpolysiloxane containing ≥3 SiH groups, (C) a hydrosilylation catalyst, and (D) a hydrosilylation catalyst inhibitor. Thus, a release film obtained by mixing perfluorohexylethyl acrylate copolymer with vinyl and acryloyloxyethyl-terminated methyl(trifluoropropyl)siloxane macromer (preparation of the copolymer given) 100, Me₂HSiO-end-blocked methyl(perfluorobutylethyl)siloxane-methylhydrogensiloxane copolymer 3, and tetramethyltetravinylcyclotetrasiloxane 1 part, combining the mixture with H₂PtCl₆-divinyltetramethyldisiloxane complex (500 ppm Pt), coating the blend on a glass plate and heating for 3 min at 150° had contact angle for H₂O 120°, MeI 102°, and n-hexadecane 70°.

IT 170092-16-7P 170092-17-8P 170092-18-9P
170092-19-0P

(crosslinked with vinyl-functional siloxane copolymer,
film; fluorine-containing curable release coating composition)

RN 170092-16-7 HCAPLUS

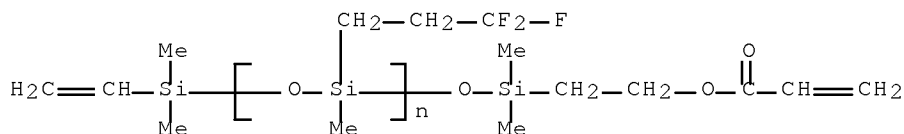
CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester,
polymer with α-(ethenyldimethylsilyl)-ω-[[dimethyl[2-[(1-
oxo-2-propenyl)oxy]ethyl]silyl]oxy]poly[oxy[methyl(3,3,3-
trifluoropropyl)silylene]] (9CI) (CA INDEX NAME)

CM 1

CRN 170092-15-6

CMF (C4 H7 F3 O Si)_n C11 H22 O3 Si2

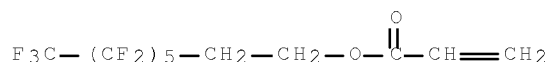
CCI PMS



CM 2

CRN 17527-29-6

CMF C11 H7 F13 O2



RN 170092-17-8 HCAPLUS

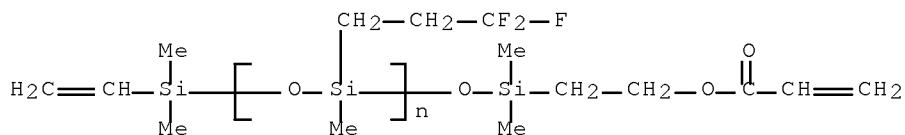
CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-
heptafluorodecyl ester, polymer with
α-(ethenyldimethylsilyl)-ω-[[dimethyl[2-[(1-oxo-2-
propenyl)oxy]ethyl]silyl]oxy]poly[oxy[methyl(3,3,3-
trifluoropropyl)silylene]] (9CI) (CA INDEX NAME)

CM 1

CRN 170092-15-6

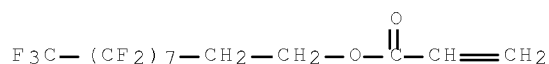
10/553,058

CMF (C4 H7 F3 O Si)_n C11 H22 O3 Si2
CCI PMS



CM 2

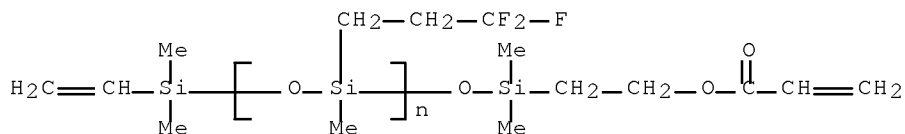
CRN 27905-45-9
CMF C13 H7 F17 O2



RN 170092-18-9 HCAPLUS
CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with
 α -(ethenyldimethylsilyl)- ω -[[dimethyl[2-[(1-oxo-2-propenyl)oxy]ethyl]silyl]oxy]poly[oxy[methyl(3,3,3-trifluoropropyl)silylene]] (9CI) (CA INDEX NAME)

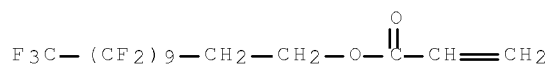
CM 1

CRN 170092-15-6
CMF (C4 H7 F3 O Si)_n C11 H22 O3 Si2
CCI PMS

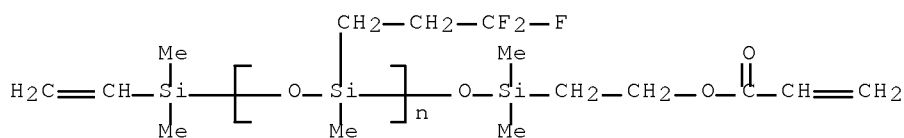


CM 2

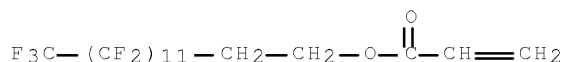
CRN 17741-60-5
CMF C15 H7 F21 O2



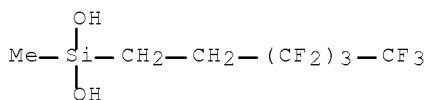
RN 170092-19-0 HCAPLUS
 CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl ester, polymer with
 α -(ethenyldimethylsilyl)- ω -[[dimethyl[2-[(1-oxo-2-propenyl)oxy]ethyl]silyl]oxy]poly[oxy[methyl(3,3,3-trifluoropropyl)silylene]] (9CI) (CA INDEX NAME)
 CM 1
 CRN 170092-15-6
 CMF (C4 H7 F3 O Si)_n C11 H22 O3 Si2
 CCI PMS



CM 2
 CRN 34395-24-9
 CMF C17 H7 F25 O2



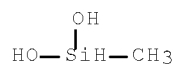
IT 170092-20-3P 170092-21-4P
 (crosslinking agent for perfluoroalkylethyl acrylate
 copolymer with fluorine-containing siloxane macromer, film;
 fluorine-containing curable release coating composition)
 RN 170092-20-3 HCAPLUS
 CN Silanediol, methyl(3,3,4,4,5,5,6,6,6-nonafluorohexyl)-, polymer with
 methylsilanediol and 2,4,6,8-tetraethenyl-2,4,6,8-
 tetramethylcyclotetrasiloxane (9CI) (CA INDEX NAME)
 CM 1
 CRN 159012-26-7
 CMF C7 H9 F9 O2 Si



CM 2

CRN 43641-90-3

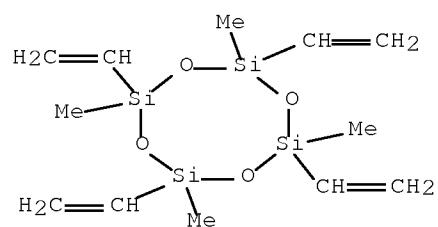
CMF C H6 O2 Si



CM 3

CRN 2554-06-5

CMF C12 H24 O4 Si4



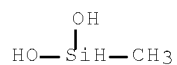
RN 170092-21-4 HCAPLUS

CN Silanediol, dimethyl-, polymer with methylsilanediol and
 2,4,6,8-tetraethenyl-2,4,6,8-tetramethylcyclotetrasiloxane (9CI) (CA
 INDEX NAME)

CM 1

CRN 43641-90-3

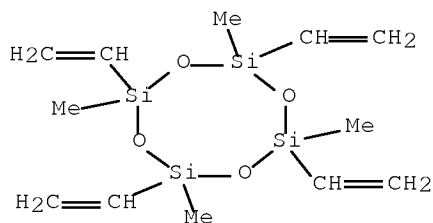
CMF C H6 O2 Si



CM 2

CRN 2554-06-5

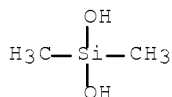
CMF C12 H24 O4 Si4



CM 3

CRN 1066-42-8

CMF C2 H8 O2 Si

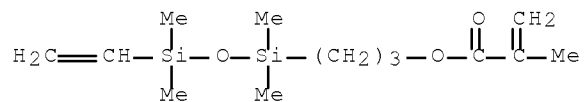


IPCI C08F0283-12 [ICM,6]; C08F0283-00 [ICM,6,C*]; C08L0051-08 [ICS,6];
 C08L0051-00 [ICS,6,C*]
 IPCR C08L0083-05 [I,A]; C08F0290-00 [I,C*]; C08F0290-00 [I,A]; C08F0290-06
 [I,A]; C08L0083-00 [I,C*]; C08L0083-04 [I,A]; C08L0083-07 [I,A];
 C08L0083-10 [I,A]; C09D0183-10 [I,C*]; C09D0183-10 [I,A]
 CC 35-4 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 42
 ST release coating fluoroalkyl acrylate copolymer prepn; fluorohexylethyl
 acrylate copolymer prepn release coating; **crosslinking agent**
 vinylsiloxane copolymer release coating; fluoropropylmethylsiloxane
 macromer release coating fluoroalkyl acrylate
 IT Siloxanes and Silicones, uses
 (vinyl-functional, **crosslinking agents** for
 perfluoroalkylethyl acrylate copolymers with fluorine-containing
 siloxane macromers; fluorine-containing curable release coating
 composition)
 IT 170092-16-7P 170092-17-8P 170092-18-9P
 170092-19-0P
 (crosslinked with vinyl-functional siloxane copolymer,
 film; fluorine-containing curable release coating composition)
 IT 170092-20-3P 170092-21-4P
 (crosslinking agent for perfluoroalkylethyl acrylate
 copolymer with fluorine-containing siloxane macromer, film;
 fluorine-containing curable release coating composition)
 OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS
 RECORD (13 CITINGS)

L48 ANSWER 26 OF 26 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1995:606634 HCAPLUS Full-text
 DOCUMENT NUMBER: 123:35434
 ORIGINAL REFERENCE NO.: 123:6491a,6494a
 TITLE: Self-curable siloxane resin composition for

INVENTOR(S): moldings and solventless or high-solids coatings
 Ohsugi, Hiroharu; Mikami, Shigeru; Tanabe, Hisaki;
 Takarada, Mitsuhiro; Yoshikawa, Yuji
 PATENT ASSIGNEE(S): Nippon Paint Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 29 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 630943	A2	19941228	EP 1994-109495	19940620
			<--	
EP 630943	A3	19950322		
EP 630943	B1	19980128		
R: DE, FR, GB				
JP 07011141	A	19950113	JP 1993-174917	19930621
			<--	
JP 2652327	B2	19970910		
JP 07157522	A	19950620	JP 1993-339417	19931203
			<--	
JP 2732214	B2	19980325		
EP 769513	A1	19970423	EP 1996-119380	19940620
			<--	
EP 769513	B1	19991117		
R: DE, FR, GB				
US 5599883	A	19970204	US 1995-534588	19950927
			<--	
PRIORITY APPLN. INFO.:			JP 1993-174917	A 19930621
			<--	
			JP 1993-339417	A 19931203
			<--	
			EP 1994-109495	A3 19940620
			<--	
			US 1994-262291	A3 19940620
			<--	
ED	Entered STN:	14 Jun 1995		
AB	The curable resin composition contains (a) a homo- or copolymer of an organohydrogenpolysiloxane macromonomer, (b) an alkenyl group-containing polymer, and (c) a hydrosilylation catalyst. The organohydrogenpolysiloxane macromonomer may be incorporated into a single polymer entity together with an alkenyl group-containing monomer unit to produce a self-crosslinkable copolymer. A resin solution was prepared from a mixture containing CH ₂ CHMeCO ₂ C ₃ H ₆ Si(Me) ₂ OSiHMe ₂ 40, cyclohexyl methacrylate 30, tert-Bu methacrylate 20, and 2,2'-azobis(Me isobutyrate) 3 parts and mixed (100 parts) with 25 parts HPE-1030 (alkenyl-containing polyether) and 1.5 part 2% ethanolic solution of chloroplatinic acid to give a coating over a steel plate, showing pencil hardness HB, good xylene rubbing resistance, and good appearance.			
IT	94356-52-2DP, reaction products with acrylic Me hydrogen siloxane 163760-39-2P 163760-40-5P 164415-98-9P			
	(macromer; self-curable siloxane resin composition for moldings and solventless or high-solids coatings)			
RN	94356-52-2 HCAPLUS			
CN	2-Propenoic acid, 2-methyl-, 3-(3-ethenyl-1,1,3,3-tetramethyl-1-disiloxanyl)propyl ester (CA INDEX NAME)			



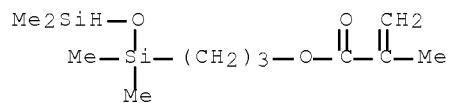
RN 163760-39-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, cyclohexyl ester, polymer with
1,1-dimethylethyl 2-methyl-2-propenoate and
3-(1,1,3,3-tetramethyldisiloxanyl)propyl 2-methyl-2-propenoate (9CI)
(CA INDEX NAME)

CM 1

CRN 96474-12-3

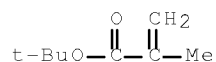
CMF C11 H24 O3 Si2



CM 2

CRN 585-07-9

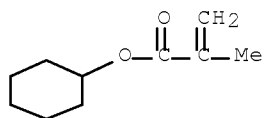
CMF C8 H14 O2



CM 3

CRN 101-43-9

CMF C10 H16 O2



RN 163760-40-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with

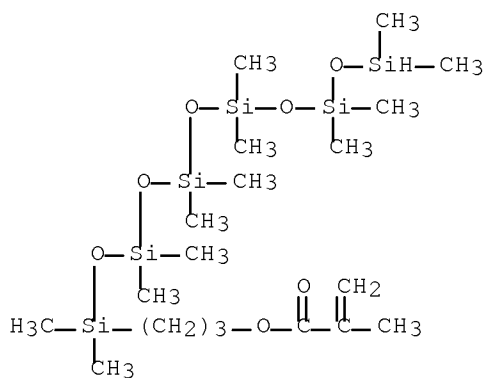
10/553,058

1,1'-(1,1-dimethyl-3-methylene-1,3-propanediyl)bis[benzene],
 3-(1,1,3,3,5,5,7,7,9,9,11,11-dodecamethylhexasiloxanyl)propyl
 2-methyl-2-propenoate, 2-ethylhexyl 2-methyl-2-propenoate, methyl
 2-methyl-2-propenoate and 2-propenyl 2-methyl-2-propenoate (9CI) (CA
 INDEX NAME)

CM 1

CRN 112147-78-1

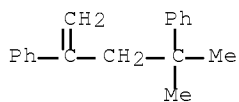
CMF C19 H48 O7 Si6



CM 2

CRN 6362-80-7

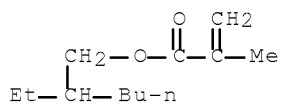
CMF C18 H20



CM 3

CRN 688-84-6

CMF C12 H22 O2

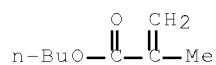


10/553,058

CM 4

CRN 97-88-1

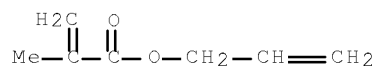
CMF C8 H14 O2



CM 5

CRN 96-05-9

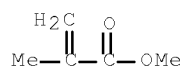
CMF C7 H10 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



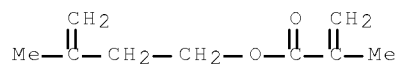
RN 164415-98-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, cyclohexenylmethyl ester, polymer with
3-methyl-3-butenyl 2-methyl-2-propenoate and
3-(1,1,3,3-tetramethyldisiloxanyl)propyl 2-methyl-2-propenoate (9CI)
(CA INDEX NAME)

CM 1

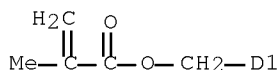
CRN 156291-88-2

CMF C9 H14 O2



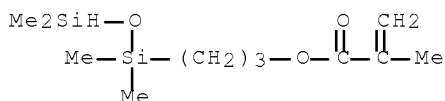
CM 2

CRN 138594-67-9
 CMF C11 H16 O2
 CCI IDS



CM 3

CRN 96474-12-3
 CMF C11 H24 O3 Si2



IPCI C08L0083-05 [ICM,5]; C08L0083-07 [ICS,5]; C08L0083-00 [ICS,5,C*]
 IPCR C08G0077-00 [I,C*]; C08G0077-442 [I,A]; C08L0055-00 [I,C*];
 C08L0055-00 [I,A]; C08L0083-00 [I,C*]; C08L0083-05 [I,A]; C08L0083-06
 [I,A]; C08L0083-10 [I,A]; C08L0101-00 [I,C*]; C08L0101-00 [I,A];
 C09D0183-06 [I,C*]; C09D0183-06 [I,A]; C09D0183-10 [I,C*]; C09D0183-10
 [I,A]
 CC 42-10 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 38
 IT 80-62-6DP, reaction products with acrylic Me hydrogen siloxane
 100-42-5DP, reaction products with acrylic Me hydrogen siloxane
 101-43-9DP, reaction products with acrylic Me hydrogen siloxane
 103-11-7DP, 2-Ethylhexyl acrylate, reaction products with acrylic Me
 hydrogen siloxane 585-07-9DP, Tert-Butyl methacrylate, reaction
 products with acrylic Me hydrogen siloxane 6362-80-7DP,
 2,4-Diphenyl-4-methyl-1-pentene, reaction products with acrylic Me
 hydrogen siloxane 7376-45-6DP, reaction products with acrylic Me
 hydrogen siloxane 23069-32-1DP, reaction products with acrylic Me
 hydrogen siloxane 30674-80-7DP, 2-Isocyanatoethyl methacrylate,
 reaction products with acrylic Me hydrogen siloxane
 94356-52-2DP, reaction products with acrylic Me hydrogen
 siloxane 138594-67-9DP, reaction products with acrylic Me hydrogen
 siloxane 156048-34-9DP, methacryloyl-containing, polymers
 156118-35-3DP, Dimethylsilanediol-methylsilanediol copolymer,
 methacryloyl-containing, polymers with acrylic monomers
 163760-39-2P 163760-40-5P 164415-98-9P
 (macromer; self-curable siloxane resin composition for moldings and
 solventless or high-solids coatings)
 OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS

10/553,058

RECORD (2 CITINGS)

=> d his nofile

(FILE 'HOME' ENTERED AT 14:29:33 ON 06 AUG 2010)

FILE 'HCAPLUS' ENTERED AT 14:29:45 ON 06 AUG 2010

L1 1 SEA SPE=ON ABB=ON PLU=ON US20090035655/PN
SEL RN

FILE 'REGISTRY' ENTERED AT 14:29:59 ON 06 AUG 2010

L2 27 SEA SPE=ON ABB=ON PLU=ON (105-58-8/BI OR 108-32-7/BI OR
109-99-9/BI OR 110-71-4/BI OR 118529-51-4/BI OR 132843-44-8
/BI OR 14283-07-9/BI OR 21324-40-3/BI OR 24991-55-7/BI OR
33454-82-9/BI OR 616-38-6/BI OR 623-53-0/BI OR 646-06-0/BI
OR 67-68-5/BI OR 7439-89-6/BI OR 7439-96-5/BI OR 7440-02-0/
BI OR 7440-22-4/BI OR 7440-48-4/BI OR 7440-50-8/BI OR
7440-66-6/BI OR 7440-70-2/BI OR 771505-05-6/BI OR 7791-03-9
/BI OR 90076-65-6/BI OR 96-48-0/BI OR 96-49-1/BI)

L3 STR

L4 50 SEA SSS SAM L3

L5 635672 SEA SSS FUL L3

L6 2 SEA SPE=ON ABB=ON PLU=ON L5 AND L2

L7 STR L3

L8 50 SEA SUB=L5 SSS SAM L7

L9 STR L7

L10 50 SEA SUB=L5 SSS SAM L9

L11 29661 SEA SUB=L5 SSS FUL L9

L12 1 SEA SPE=ON ABB=ON PLU=ON L11 AND L2

L13 13 SEA SPE=ON ABB=ON PLU=ON L11 AND POLYOXY?

L14 STR L3

L15 50 SEA SUB=L5 SSS SAM L14

L16 17316 SEA SUB=L5 SSS FUL L14

L17 0 SEA SPE=ON ABB=ON PLU=ON L16 AND L2

L18 STR L14

L19 50 SEA SUB=L5 SSS SAM L18

L20 24282 SEA SUB=L5 SSS FUL L18

L21 1 SEA SPE=ON ABB=ON PLU=ON L20 AND L2

FILE 'HCAPLUS' ENTERED AT 14:52:10 ON 06 AUG 2010

L22 37520 SEA SPE=ON ABB=ON PLU=ON L11

L23 19117 SEA SPE=ON ABB=ON PLU=ON L16

L24 29608 SEA SPE=ON ABB=ON PLU=ON L20

L25 5094 SEA SPE=ON ABB=ON PLU=ON L22 AND (L23 OR L24)

L26 1 SEA SPE=ON ABB=ON PLU=ON L25 AND L1

E HYDROSILYLATION CATALYSTS/CT

L27 3492 SEA SPE=ON ABB=ON PLU=ON "HYDROSILYLATION CATALYSTS"+PFT
,NT/CT

L28 69 SEA SPE=ON ABB=ON PLU=ON L25 AND L27

L29 1 SEA SPE=ON ABB=ON PLU=ON L28 AND ELECTROCHEM?/SC, SX

L30 1 SEA SPE=ON ABB=ON PLU=ON L28 AND ELECTROLYT?

L31 49 SEA SPE=ON ABB=ON PLU=ON L25 AND ELECTROCHEM?/SC, SX

L32 1 SEA SPE=ON ABB=ON PLU=ON L31 AND HYDROSILYLATION
CATALYST?

FILE 'REGISTRY' ENTERED AT 14:56:27 ON 06 AUG 2010

L33 STR L9

L34 50 SEA SUB=L5 SSS SAM L33

L35 29661 SEA SUB=L5 SSS FUL L33

FILE 'HCAPLUS' ENTERED AT 14:57:34 ON 06 AUG 2010

L36	37520	SEA	SPE=ON	ABB=ON	PLU=ON	L35
L37	5094	SEA	SPE=ON	ABB=ON	PLU=ON	L36 AND (L23 OR L24)
L38	69	SEA	SPE=ON	ABB=ON	PLU=ON	L37 AND L27
L39	120	SEA	SPE=ON	ABB=ON	PLU=ON	L37 AND HYDROSILYLATION CATALYST?
L40	120	SEA	SPE=ON	ABB=ON	PLU=ON	L38 OR L39
L41	1	SEA	SPE=ON	ABB=ON	PLU=ON	L40 AND ELECTROCHEM?/SC, SX
L42	1	SEA	SPE=ON	ABB=ON	PLU=ON	L40 AND ELECTROLYT?
L43	1	SEA	SPE=ON	ABB=ON	PLU=ON	L29 OR L30 OR L32 OR L41 OR L42
L44	32	SEA	SPE=ON	ABB=ON	PLU=ON	L40 AND (CROSSLINK? OR CROSS LINK?)
L45	12	SEA	SPE=ON	ABB=ON	PLU=ON	L31 AND (CROSSLINK? OR CROSS LINK?)
L46	43	SEA	SPE=ON	ABB=ON	PLU=ON	(L44 OR L45)
L47	26	SEA	SPE=ON	ABB=ON	PLU=ON	L46 AND (1840-2003)/PRY, AY, PY
L48	26	SEA	SPE=ON	ABB=ON	PLU=ON	L47 OR L43